

20 March 2026

Tēnā koe

Official Information Act Request

Thank you for your request of 26 February 2026, under the Official Information Act 1982, for the following information:

How do NZQA calculate Australian Tertiary Admission Rank (ATAR) scores for NCEA students?

In your response, please include the following information:

- 1. The full technical methodology used by NZQA to calculate ATAR scores from NCEA. Please include, if relevant, any statistical models, scaling procedures, weighting formulas, or aggregation methods used in this calculation.*
- 2. The exact credit weighting applied to Excellence, Merit, and Achieved grades.*
- 3. The criteria for subject eligibility, including any approved subject lists and credit thresholds.*
- 4. How the New Zealand cohort is defined for percentile ranking purposes.*
- 5. Any agreements, memoranda of understanding, or technical documents shared between NZQA and the Australian Conference of Tertiary Admission Centres (ACTAC) relating to ATAR calculation.*
- 6. Any changes made to the methodology since its implementation, including dates and reasons for those changes.*
- 7. Information about review, moderation, or appeal processes relating to calculated ATAR scores.*

Response

NZQA calculates ATAR scores on behalf of Australian tertiary admission centres for every eligible student each January. We use methodology agreed by the Australasian Conference of Tertiary Admission Centres, adapted for the New Zealand context using NCEA results.

More information about ATARs can be found on our website:

<https://www2.nzqa.govt.nz/international/nz-quals-overseas/study-with-ncea/australia/>.

Appendix One lists the supporting documents referred to in this response by their number (e.g. Supporting Document 1), for brevity. The documents outline the ATAR conversion process, the research underpinning the methodology used by NZQA, and how ATAR equivalence is determined.

Responses to specific questions:

1. Covered by Supporting Documents 1 through 4.
2. Relative difficulties are calculated each academic year for each standard, standard version, and result, using midpoints of the (assessed) grade distributions (e.g. there is not an overall weighting for an Excellence result). Adjustments for subject and cohort

are described in Supporting Document 2. Relative difficulties for 2024 and 2025 academic years are included in Supporting Document 5.

3. All assessed results from University Entrance (UE) approved subjects are used to identify a student's best 90 credits before any assessed results from achievement standards from non-UE approved subjects, and then by any assessed unit standard results. There is a maximum of 24 credits from a subject, regardless of source. UE approved subjects are available from the NZQA website:
<https://www2.nzqa.govt.nz/ncea/understanding-secondary-quals/university-entrance/ue-subjects/>
4. The participation rate is calculated using the number of students who, in the current academic year, have at least one Level 3 result and a total of 60 or more assessed credits from the current and previous academic years, grouped by age. This count is compared with age -specific population estimates for the same year (as at June) provided by Statistics New Zealand. The participation rate is calculated by dividing the number of students by the corresponding age -weighted population estimate and converting the result into a percentage. This percentage is then used as an input to the model described in Supporting Document 3.
5. As there are no documents on file that meet the scope of this question, this part of your request is being refused under section 18 (e) of the OIA as the document alleged to contain the information requested does not exist or, despite reasonable efforts to locate it, cannot be found.
6. ATAR process changes:
 - 1990 sum of best 5 University Entrance Bursary subject scores converted to ITI600 scores using annual conversion tables.
 - 2004 process uses level 3 NCEA results.
 - 2012 process as described in Supporting Document 1. Apply relative difficulties from current academic year to results from current and previous academic year only.
 - 2023 remove restriction to current and previous academic years. Apply relative difficulties from current academic year to results from current and all previous academic years.
7. There is no formal ATAR review process. Most queries received by NZQA relate to whether new results are included in ATAR calculations, and when updated ATARs become visible to Australian institutions. Students with new results (successful reviews and reconsiderations or late reported internally assessed results) from the appropriate academic year(s), are flagged for ATAR recalculation. The new statistic value (sum of credit weighted relative difficulties of best 90 credits divided by 90), is compared against the lowest statistic value of each ATAR from initial calculation in early January. If the revised statistic value is higher, this may result in an increase to the student's ATAR.

Our response to your request may be published on our website after five working days. Your name and contact details will be removed before publication.

If you require further assistance or believe we have misinterpreted your request, please contact Elizabeth Templeton in the Office of the Chief Executive, email elizabeth.templeton@nzqa.govt.nz or telephone (04) 463 3339.

You have the right to seek an investigation or review by the Ombudsman of this decision under section 28(3) of the Official Information Act 1982. Details of how to make a complaint can be found

at www.ombudsman.parliament.nz. You can also telephone 0800 802 502 or write to the Ombudsman at PO Box 10152, Wellington, 6143.

Nāku nā



Dr Grant Klinkum
Pouwhakahaere/Chief Executive

Appendix One: Supporting Documents Attached

Number	Name
1	Coxon, D (2011) ITARs and Related Calculations.pdf
2	Johnston and Lillis (2011) Statistical modelling and analysis of NCEA and New Zealand Scholarship assessment data - Condensed.pdf
3	Harrison and Hyndman (2015) Modelling the participation function with a one-parameter family of cubic splines.pdf
4	Information about ATAR Calculations.pdf
5	PRS-6547 OIA - ATAR calculation of relative difficulties.xlsx

SPER	FS1057
Functional Specification	ITARS and Related Calculations
	Version: 2.1
	Status: DRAFT

Document History

Document Revision History	Version	Date	Author
Initial draft based on older documentation	0.1	17 Nov 2010	David Coxon
First draft updated to the Australian Tertiary Admission Ranking System (ATARS), the replacement for the Australian Interstate Transfer Indices (ITI).	0.2	1 Jul 2012	David Coxon
Revised and tidied up following feedback Split into the ITARS calculation and the ATARS derivation from the ITARS.	0.3	9 Oct 2012	David Coxon
FINAL for 2012	1.0	12 Oct 2012	David Coxon
Add the definition of the rate of success in Standard Difficulty equation.	1.01	6 Nov 2012	David Coxon
Include rules for saving recalculated ITAR and ATAR scopes on LEARNER_STATISTIC	2.0	28 Nov 2012	David Coxon
Update to include removal of 2-year limit for ATARS in 2017 and review to identify potential changes upon closure of IQ15	2.1	30 Sep 2022	David Wilson

Document References

Related Documents

FS1056 Highest Attainment

FS1794 Australian Tertiary Entrance Verification for Providers

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Authorship

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Signed:	Date:
Business Owner:	
<i>I confirm that the functionality set out in this specification accurately and completely represent the strategic and business requirements of my business unit.</i>	
Signed:	Date:

1. Introduction

1.1 Overview

In early January each year NZQA runs a full QUALCHECK and award process.

A number of attainment and ranking processes are then run to provide input to other extracts for schools and tertiary providers:

- Highest Attainment Calculation (HAC) – run January through to May(ish). (See FS1056 – Highest Attainment)
- International Tertiary Admission Ranking System (ITARS) followed by a derivation of the ITARS to provide the Australian ATARS, currently these two steps are performed simultaneously. This is the replacement for the Australian Interstate Transfer Indices (ITI). It is run in January then daily updates to May(ish). This is used in creating the Australian TEVP files (see FS1794 – Australian Tertiary Entrance Verification).
- International Tertiary Admission Ranking System (ITARS) followed by a derivation of the ITARS to provide the German results (GTARS). This is run in January then daily updates to May(ish). It is used by overseas learners wanting a German overseas Results Notice (ORN) (see FS499).
Note: while the same ITARS process is used for both ATARS and GTARS, the subject groups differ, meaning that some parts of the process need to be re-run.
There is also a static annual value used for GTARS, described as NMin and NMax, calculated at the time of the ITARS run in early January
- There is also a Thai ORN, however this is not based on the ITARS framework (see FS498).

1.2 Document Purpose

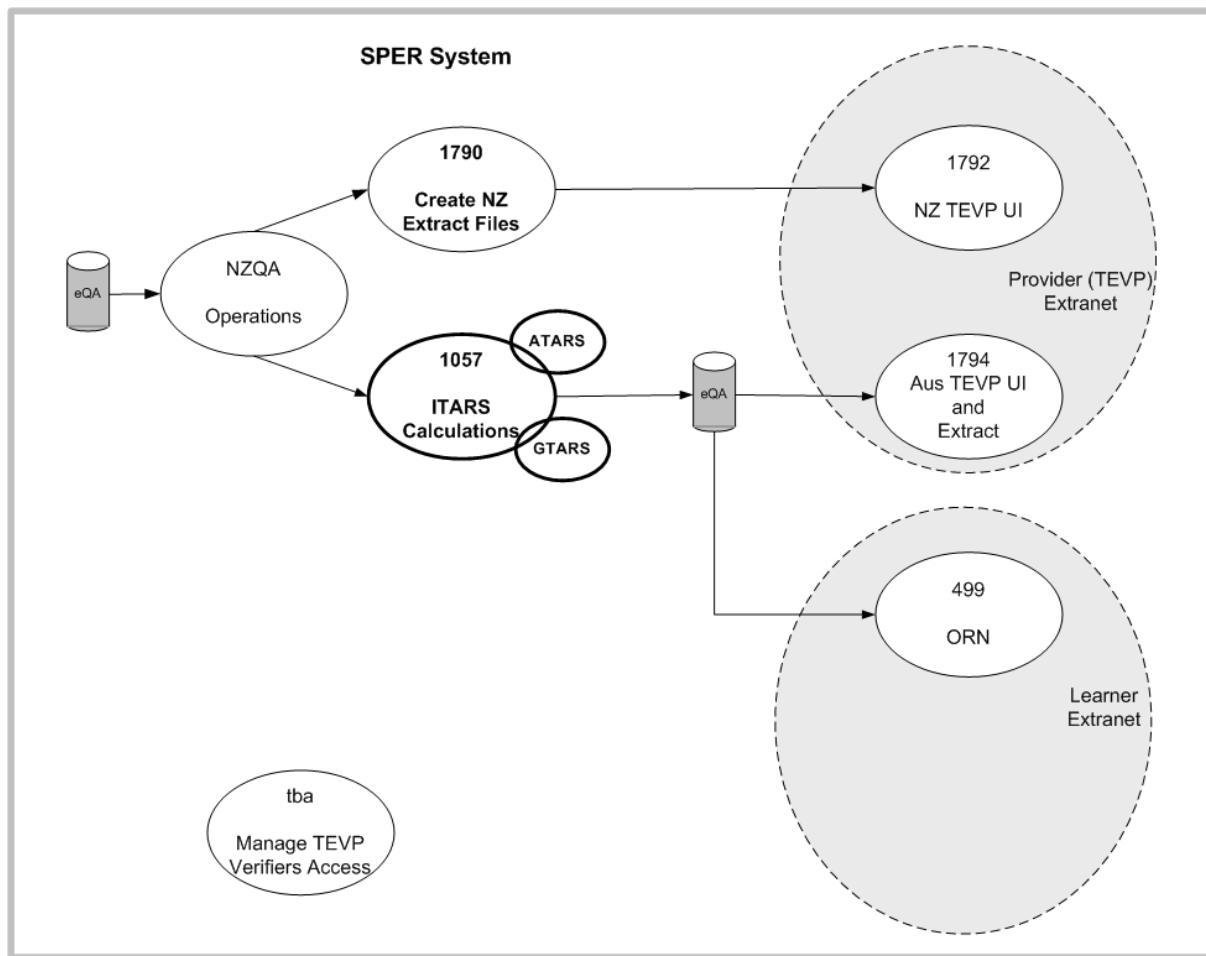
The objective of this document is to give an overview of how the ITARS is generated and the ATARS and GTARS results stored.

1.3 Document Audience

The primary audience for this document is subject matter experts (SME) who will be using the final system, and IS analysis, development and testing staff.

It is intended that the FS documents will provide sufficient description of the calculation to be used for on-going defect analysis and application support.

1.4 Functional Specification Context



2. Functional Specification Profile

Functional Specification Profile	
Description	This functional specification describes the ITARS and related calculations.
Typical User Roles	Operations: Run the process
Triggers	Post Exams QualChecking complete
Pre-Conditions	All bulk exam results have been received and/or the results return cut-off date has been reached. For the initial (January) processing, sufficient results have been received. Data and Data Analysis will notify when this has been achieved. For subsequent update processes, new results have been received. All Candidates have had the appropriate QualCheck completed and the correct qualifications have been recorded.
Post-Conditions	The ATARS result is held for all year 12 and 13 students with 60+ credits (N,A,M,E results) at L3+ (including tertiary results) in academic years where there was a secondary enrolment.

3. Definition of Terms

The following specialist terms and abbreviations are used in this document:

Term	Definition
ATARS	Australian version of ITARS. Differences cover in section 6.2
ITARS	International Tertiary Admission Ranking System Also refers to the overall score gained
GTARS	German version of ITARS. Differences cover in section
SSP	Subject Summary Percentile

4. Eligibility

4.1 ITARS and SSP-eligible standards

- All standards registered at Level 3 on the National Qualifications Framework with at least one secondary school entry are eligible for inclusion in the ITARS calculation.
- Although ITARS eligible credits need not be drawn from UE approved subject areas, the ITARS calculation for each candidate will use results from UE approved subject areas in preference to results not from UE approved subject areas; that is results not from UE approved subject areas will only be used for candidates with fewer than 90 credits of assessed entries in UE approved subject areas. The order of selection priority is:
 - UE achievement then
 - UE unit standard then
 - Non-UE achievement then
 - Non-UE unit standard.
- No more than 90 credits may be included in the ITARS calculation. When the final result needed takes a candidate's total over 90 credits, the calculation will pro rata the contribution of the lowest standard.
- No more than 24 credits may be included in the ITARS calculation for any one UE subject. When the final result needed takes a candidate's total over 24 credits, the calculation will pro rata the contribution of the lowest standard.
- Where multiple results occur in the same standard only the best result is used, all other duplicates are removed

4.2 ITARS and SSP-eligible results

- A student is an ITARS candidate if they :
 - have 60 or more level 3+ credits with N,A,M,E results gained in the last two years
 - are in year 12 or 13 in the calculation year.
- The expected percentiles and standard difficulty adjustments are calculated each year, based on that year's distributions of results. It is assumed that only the one current version of a standard is used in a single year.
- When results from the previous year are used, standard metrics (credits, level) and the expected percentiles and standard difficulty adjustments must be determined based on the distribution of results for the year in which they were obtained. This implies that the appropriate version of the standard for the year where the result was gained must be used.

5. ITARS Processes

This section describes the ideal ITARS calculation process in the context of the NCEA / UE environment.

The following section describes the current, limited implementation and the additional processing required for ATARS.

5.1 Ideal State

5.1.1 Calculation Approach

The key steps in the ITARS calculation process are:

1. Determine percentage scores
2. Determine Standard-Difficulty adjustment
3. Determine eligible candidates
4. Determine subject scores and rankings.
5. Determine Cohort Participation Rate and ATAR Score

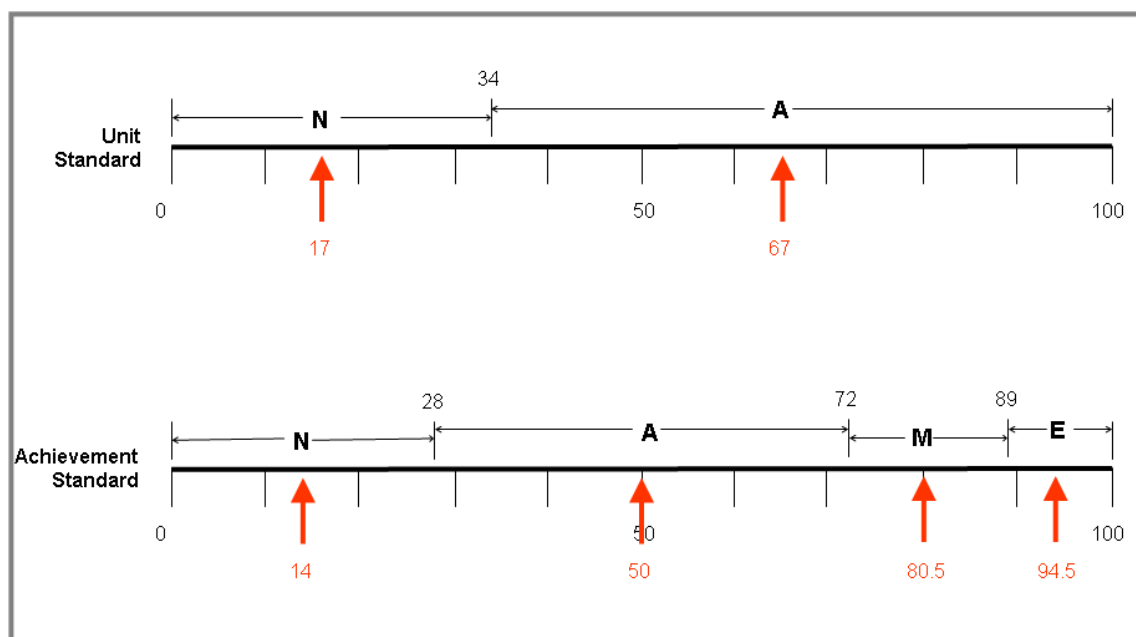
5.1.2 Determine the Percentage Scores

This step is to determine an equivalent percentage score for each grade category (N,A,M,E) for every standard eligible to count towards the ITARS.

This is calculated as part of the initial processing in January, using all secondary results for this year, not just those of ITARS students. Note that the mid-points are not recalculated as part of the update process when new results are received for individual candidates.

An eligible standard is any L3 standard which is used for at least one secondary school entry this year.

Graphically equivalent percentage scores can be shown by the red arrows on the diagram below:



Explanation

Unit Standards

The diagram show a unit standard (U/S) where, based on actual results, 34% of candidates scored 'N' and 66% gained 'A'.

For 'N' the mid-point or 'expected' score is half way along the grade $(34\%/2) = 17\%$ (0.17).

Likewise the mid point of the 'A' grade is halfway between 34% and 100% = 67% (0.67).

Achievement Standards

Achievement standards (A/S) follow the same pattern as for U/S, but with all four grade categories.

5.1.3 Determine Standard-Difficulty Adjustment

The next step is to determine an adjustment factor to reflect the relative difficulty of each standard, based on this year's results. This allows a fair comparison between students in calculating the ITARS score irrespective of the difficulty of the standards undertaken by each students.

This is done by comparing the performance of candidates taking the standard being assessed for difficulty (the target standard S_i) with their performance on each other standard (S_j). For example if, of the 1000 candidates taking standard S_i 50 are also taking the standard S_j , then the relative performance of these 50 candidates on S_i and S_j is measured. This assessment is done for the subset of candidates taking each pair of standards, using the formula:

$$D_i = \frac{\sum_{j=1}^n c_{ij} \rho_{ij} (R_j - R_i)}{\sum_{j=1}^n c_{ij}}$$

Where:

D_i = difficulty of standard S_i

C_{ij} = the number of candidates taking both S_i and S_j

R_i = the rate of success of C_{ij} in S_i

R_j = the rate of success of C_{ij} in S_j

N = the total number of standards with cohorts that overlap that of S_i

ρ_{ij} = the magnitude of the non-parametric correlation (Spearman's ρ) between standards i and j .

The rate of success (R_i) is the percentage of successful candidates (C_{ij}) for the standard expressed as a decimal.

The correlation in rate of success (ρ) gives a measure of the extent to which performance in a pair of standards draws upon similar knowledge, skills, or cognitive functions. A correlation coefficient of one means that performance on one standards would be completely predictable from performance on the other, while a correlation coefficient of zero would mean that performance on one standards would provide no indication of performance on the other.

ρ_{ij} is calculated as:

$$\frac{\sum [(s_i.\text{ResultNum} - s_{c.i_ResultMean}) * (s_j.\text{ResultNum} - s_{c.j_ResultMean})]}{\sqrt{\{ \sum (s_i.\text{ResultNum} - s_{c.i_ResultMean})^2 \} * \{ \sum (s_j.\text{ResultNum} - s_{c.j_ResultMean})^2 \}}}$$

for every pair of i, j standard results for every learner who has results in both i and j

Where $s_i.\text{ResultNum} =$

$s_j.\text{ResultNum} =$

$s_{c.i_ResultMean} = [(3 * i_E) + (2 * i_M) + i_A] / \text{SharedCohortSize}$

$s_{c.j_ResultMean} = [(3 * j_E) + (2 * j_M) + j_A] / \text{SharedCohortSize}$

$\text{SharedCohortSize} =$ number of students who have results in both standards i and j .

Different standards may have a different number of passing grades, i.e. A/S usually have three passing grades (A, M, E) and a U/S will typically only have one. A difficulty measure is calculated for each passing grade: e.g. the relative difficulties of obtaining a result of A or better, M or better, and E for the standard.

Once the difficulty of a standard has been estimated, the proportion the value of the estimate, D , reflecting the A result (and excluding the M and E proportion) is added to the expected percentile for that standard to adjust for the difficulty (when the estimated difficulty is less than average, the value of D will be negative, and the expected percentile score will be reduced appropriately).

The percentile ' D_i ' is stored for all standards (i) and grades for each year. A distinction does not need to be made between versions of a standard.

Notes:

- The average differences in rates of success are in weighted averages, with the values of the weights determined by the relative sizes of the overlapping cohorts, and by the strength of the correlation in performance. This places more emphasis on comparisons involving standards with larger common cohorts; this is appropriate because the greater the size of the overlap, the more reliable the comparison.
- The correlation in rate of success gives a measure of the extent to which performance in a pair of standards draws upon similar knowledge, skills, or cognitive functions. Clearly, if performance in two standards is uncorrelated (i.e., if the value of the correlation coefficient is zero), then the question of their relative difficulty does not make sense. On the other hand, if performance was completely correlated (i.e., the value of the correlation coefficient is one), then performance on one would be completely predictable from performance on the other, and they would be fully comparable in terms of their relative difficulty. In practice, correlations are never as great as one, and although the theoretical minimum correlation is negative one (a negative correlation indicating an inverse relationship in performance), a correlation in performance on a pair of standards as low as zero is very rarely, if ever, observed.
- If a percentage is adjusted to greater than 1.0 it is capped at 1.0, if below 0.0 it is capped at 0.0.
- This calculation does not use the percentage scores calculated in 5.1.2.

5.1.4 Determine List of Candidates

All candidates at level 12 or 13 who have 60 or more Level 3 credits with N,A,M,E results over the last 2 years are eligible for an ITARS ranking (ie a year 12 candidate with 60 L3 N,A,M,E results over the last 2 years would also be eligible).

5.1.5 Determine Scores and Ranking by Subject (SSP)

As per 5.2.1 below, this process is not currently implemented and is not needed for the 2012, academic year. It is uncertain if it will be used in the future.

This is based on a specified subject grouping and on all relevant standards, regardless of paid status. Different subject groups may be used by different countries. See the following sections for specific subject groups details.

For each subject, a full year's study is deemed to be 18 credits, and a candidate needs to have a minimum of 18 CR of N,A,M,E results available in a subject before they can be ranked for that subject.

A candidates Subject Summary Percentile (SSP) score is calculated based on their highest priority 18 N,A,M,E results in that subject. The priority order for standards in the subject is:

1. Standard type
 - UE achievement then
 - UE unit standard then
 - Non-UE achievement then
 - Non-UE unit standard.
2. Descending order of average expected percentiles (highest first) within standard type.

If the result that takes the total to 18 credits in fact causes the total to exceed 18, pro-rata the credit value of the final standard.

In the following table, showing one subject, with A/S a to g giving the candidate a total of 24 credits. By ranking the standards as described above only the first six standards need to be used to exceed 18 CR.

The candidate's weighted average score is therefore the sum of (Cr * PS) for the credits used from the six standards divided by the number of credits used (18).

Candidates are ranked by their SSP for each subject in which they are eligible.

Note: in selecting the standards that are part of the subject, exclusions first need to be applied as follows:

1. If multiple results in a single standard, choose the best result by percentile.
2. If an exclusion pair exists between A/S and U/S then choose the A/S over the U/S.
3. If an exclusion pair exists between A/S and A/S or U/S and U/S then choose the best result by percentile.

This approach does not always correctly handle situations where the two exclusion standards are in different subjects, although it is assumed that that situation would be unlikely to occur.

Standard	Credits Available	Credits Used	Grade	Percentile Score (Di)	Cr * PS
Standard f	3	3	E	0.932	2.796
Standard b	3	3	M	0.792	2.376
Standard d	3	3	A	0.627	1.881
Standard e	4	4	A	0.551	2.204
Standard a	4	4	A	0.513	2.052
Standard g	4	1	A	0.441	0.441
Standard c	3	0	N	0.121	n/a
	24	18			11.75
Subject Score:					<u>0.653</u>

5.1.6 Determine Overall Score and Ranking

In addition to a score and hence ranking by subject, candidates are given an overall score and ranking.

Because the ITARS is based on a rank ordering of all candidates with Level 3 results, the ranking calculation must be carried out for all candidates with 60 or more credits of N,A,M,E results L3+ results in the last 2 years who are currently in years 12 or 13.

For each candidate with a L3 results, the highest priority 90 credits worth of standards are identified. The priority order for standards is:

1. Standard type
 - UE achievement then
 - UE unit standard then
 - Non-UE achievement then
 - Non-UE unit standard.
2. Descending order of average expected percentiles (highest first) within standard type.

Note: in selecting the standards, exclusions first need to be applied as follows:

1. If multiple results in a single standard, choose the best result by percentile.
2. If an exclusion pair exists between A/S and U/S then choose the A/S over the U/S.
3. If an exclusion pair exists between A/S and A/S or U/S and U/S then choose the best result by percentile.

Once contributing results have been determined, the ITARS is calculated in the same way as SSP.

If the total number of eligible results for a candidate's ITARS is less than 90, the denominator for the credit-weighted average is nonetheless 90. If the final (lowest valued) result used to determine the ITARS takes the total to more than 90 credits, the lowest result is pro-rata-ed and denominator remains 90 credits.

When credit-weighted totals have been determined for all eligible candidates, the scores are ranked, and a percentile ranking is assigned to each. This percentile ranking is the ITARS.

The ITARS percentile is then used to determine the ATARS score as described in the following steps.

5.2 Differences

5.2.1 Determine Scores and Ranking by Subject (5.1.5)

The ITARS process is not used. Rather, the old process that was used in parallel with the ITI process is still used.

The grade average is calculated as follows:

For each entry, calculate $\text{WeightedEntryCredits} = \text{EntryCredits} \times \text{ResultWeighting}$

Where ResultWeighting is defined as:

N	=	1
A	=	2
M	=	3
E	=	4

Calculate:

$\text{WeightedEntryCreditsSum} = \text{SUM}(\text{WeightedEntryCredits})$

and:

$\text{EntryCreditsSum} = \text{SUM}(\text{EntryCredits})$

Calculate:

$\text{GradeAverage} = \text{WeightedEntryCreditsSum} / \text{EntryCreditsSum}$

5.3 Storage

The ITARS score is held in the LEARNER_STATISTIC TABLE as a type 'IR' record. for the current academic year.

If the ITARS calculation is repeated, new scores are added as follows

- If no score exists in LEARNER_STATISTIC for the academic_year, then create a record (active_ind = 1)
- If a previous score exists for the same academic_year, AND the new result is **lower or the same**, then **do not** create an entry (previous result remains)
- If a previous score exists for the same academic_year, AND the new result is **higher**, then the previous result is set to inactive (active_ind = 0), and a new record is to be added to LEARNER_STATISTIC (active_ind = 1)

Values for the parameters Nmin and Nmax are calculated for the year and stored to be displayed by the German ORN (see FS499).

Nmin is the lowest ITAR score for the year, multiplied by 90.

Nmax is the highest ITAR score for the year, multiplied by 90.

These are derived as needed when generating the German ORN. See FS499 for further details.

6. Australian Variation

6.1 Subject Groups

Australia uses the NZQA UE Subject groups.

6.2 Determine Cohort Participation Rate and ATAR Score

The participation rate compares the number of learners in this cohort that were in year 9 (first year of secondary) with the number now having at least 60 credits of L3 results gained in the last two secondary enrolments (years 12 and 13). This uses the StatsNZ data and the count of Year 13 learners entered in NZQF standards.

The **Participation Rate (Roll Adjustment Factor)** =

$$(\text{number of cohort with L3 results [as defined above]}) / (\text{cohort size in year 9 [4 yrs ago]})$$

The final ATAR ranking needs to be in the context of the whole population.

The participation rate is used with a table of the ATAR score mapped to the ITARS percentile for different participation rates. This table is currently provided as a spreadsheet from the Australian Conference of Tertiary Admission Centres (ACTAC).

The ATARS score is held in the LEARNER_STATISTIC TABLE as a type 'IP' record for the current academic year. See the Daily Update section below for details of subsequent updates to the scores.

Example

For a **Participation Rate** of 48%

	A	DK	DL	DM	DN	DO
1						
2						
3	ITI	47.6	47.8	48.0	48.2	48.4
4	99.95	0.108	0.108	0.108	0.107	0.107
5	99.90	0.108	0.108	0.108	0.107	0.107
6	99.85	0.108	0.108	0.108	0.107	0.107
7	99.80	0.109	0.108	0.108	0.107	0.107
8	99.75	0.109	0.108	0.108	0.107	0.107
9	99.70	0.109	0.108	0.108	0.108	0.107
10	99.65	0.109	0.108	0.108	0.108	0.107
11	99.60	0.109	0.108	0.108	0.108	0.107
12	99.55	0.109	0.109	0.108	0.108	0.107
13	99.50	0.109	0.109	0.108	0.108	0.108
14	99.45	0.109	0.109	0.108	0.108	0.108
15	99.40	0.109	0.109	0.108	0.108	0.108
16	99.35	0.109	0.109	0.109	0.108	0.108
17	99.30	0.109	0.109	0.109	0.108	0.108
18	99.25	0.109	0.109	0.109	0.108	0.108
19	99.20	0.110	0.109	0.109	0.108	0.108
20	99.15	0.110	0.109	0.109	0.108	0.108
21	99.10	0.110	0.109	0.109	0.109	0.107

The top 0.108 percent of the list of candidates, ranked according to their ITARS scores, are assigned an ATAR score of 99.95

The next 0.108 percent of candidates are assigned an ATAR score of 99.90

Working from the top down, each additional 0.108 percent of candidates is assigned the relevant ATAR score. We would take the next 0.108 percent of candidates 12 times in this example. On the 13th iteration of this, we would take the next 0.109 percent of candidates and assign them an ATAR score of 99.35

This process repeats, working down the list, until 100 percent of the candidates have been assigned the relevant ATAR score.

6.3 Daily ATARS Update

A daily process will be run which calculates ITARS and ATARS scores for candidates who have become eligible after the initial ITARS ranking was done, or have a result changed that may cause a change in their ITARS and ATAR scores. Candidates may become eligible because a new result or

changed result has pushed them over the threshold of having 60+ level 3+ credits over the last two years.

The addition of candidates via this process will not affect other candidates ITARS or ATARS scores.

If a new ATARS is generated, it will be added as follows

- If no score exists in LEARNER_STATISTIC for the academic_year, then create a record (active_ind = 1)
- If a previous score exists for the same academic_year, AND the new result is **lower or the same**, then **do not** create an entry (previous result remains)
- If a previous score exists for the same academic_year, AND the new result is **higher**, then the previous result is set to inactive (active_ind = 0), and a new record is to be added to LEARNER_STATISTIC (active_ind = 1)

7. German Variation

7.1 Subject Groups

Germany uses a specific German Subject group.

7.2 German Rating

As part of the initial processing in January two additional parameters are needed, NMin and Nmax. These provide a country-specific adjustment that is applied to the learner's ITARS score to meet the German needs.

Given the very small number of learners needing a German score, rather than holding the learner's GTARS score, it will be derived on-demand from the pre-calculated standard (difficulty) percentile, for the learner's top 90 credits (as described in sections 5.1.5 and 5.1.6).

7.3 German Overseas Results Notice

See FS499 for details of the actual ORN produced for the learner.

8. Output Files

See FS1794 – Australian Tertiary Entrance Verification for details of the file formats used.

The German results are provided to the individual learner using the ORN. No bulk files are generated.

Information about ATAR Calculations

Australian Tertiary Admission Rank (ATAR) scores

Each state has its own education system which requires common statistics to compare results from different states. The ATAR (also known as the Interstate Transfer Index - ITI) is used to compare and rank Australian Year 12 students (Australian Year 12 is New Zealand Year 13 and NCEA Level 3). The ATAR ranks students from 99.95 to 0 with 99.95 being the top score.

NCEA to ATAR Conversion Process

NZQA uses a statistically-based process to produce ATAR scores from NCEA results. The methodology was developed, overseen, and regularly reviewed by the Australasian Conference of Tertiary Admission Centres (www.ACTAC.edu.au). It begins with an analysis of all results in all level 3 standards by all students with a secondary enrolment in an academic year in January of the following calendar year. The outcome is a relative difficulty weighting for each academic year, standard, standard version, and result combination. This statistic is applied to the result and credits for each standard and standard version.

ATAR scores are based on each student's best 90 NCEA Level 3 credits with a maximum of 24 credits from a subject. Where a standard is repeated only the best result is used and the other discarded. Where more than 90 credits are available only the best 90 are used.

Standard results are prioritised with those from University Entrance (UE) approved subjects being used ahead of those from non UE approved subjects. Achievement standards are used ahead of unit standards. Within each category, standard results with a higher difficulty weighting are ahead of standards with a lower difficulty ranking. Externally assessed achievement standards are typically ranked higher than internally assessed achievement standards for the same subject and result. It is often the case that Achieved or Merit results in one standard contribute more to a higher ATAR score than an Excellence in a different standard (but of course, in the same standard an excellence is better).

The combined credit weighted score from a student's best 90 credits is compared to other students in their cohort to determine their ATAR score. The standard difficulty comparison process means 90 excellence credits is not enough to guarantee a student gets the top ATAR score.

All available (at the time of the ATAR calculation) NCEA level 3 or above standard results from all completed academic years are taken into account for a student's ATAR score and the best 90 are used. Standard difficulty for the year the student did the standard is used to calculate their ATAR score, and if a student repeats a standard to get a better result, the best result and its academic year will be used.

An ATAR score of 99.90 means a student ranked in the top 0.05% to 0.10% of their age cohort - which includes those who have left school, those studying under other assessment systems and those already undertaking tertiary study.

ATAR scores are not calculated for students with less than 60 NCEA Level 3-and-above assessed credits from completed academic years.

Entry Requirements and Predicted ATAR Scores

The Australian University system is very competitive. Each institution sets its own admission requirements and criteria for assessing students. Institutions publish potential minimum ATAR scores for admission to courses as guidance but students need to meet subject prerequisites and may also be interviewed, auditioned, or required to submit a portfolio on top of the ATAR requirement.

To achieve a very high ATAR score a student needs to get as many excellence and merit results as possible in externally and internally assessed achievement standards in UE approved subjects (especially the externally assessed standards).

As ATAR scores are calculated each academic year using the results of all students undertaking level 3 standards it is not possible to predict ATAR scores in advance or from the same set of results from a prior year because they are different.

We don't do predicted ATAR score requests for this reason.

Students need to ensure that their final year course will enable them to meet the subject prerequisites for the institution and course they want entry to. This might mean taking more credits in achievement standards in more subjects than their classmates so they meet Australian subject criteria and can be compared to Australian students. Students will need to meet the Universities and the States entry requirements. This will be in addition to the ATAR course requirement. State requirements may include English requirements (NCEA Level 3). Even where English is required the ATAR will only use NCEA level 3 English standards if they are in a student's best 90 credits.

NZQA recommends that students contact the institution they wish to attend as early as possible to ensure that their year 13 course will enable them to meet the entry requirements.

Contact details for tertiary admission centres and universities are available from the ACTAC website at www.ACTAC.edu.au

How and When Results get to Australia

The Australian State exam cycles are around 6 weeks earlier than New Zealand's. NZQA does not know unless told by Australian Tertiary Admission Centres and Universities, who has applied for entry in Australia so we calculate ATAR scores and have results ready for all NCEA students, before results release so they can meet the Australian offer cut-off dates.

Australian Tertiary Admission Centres and some Universities can log into the NZQA website to access the NCEA results and ATAR scores for students that have applied for admission. If the student's tertiary release indicator (privacy flag) is set to "No" then the results are not released by NZQA. Students can check this with their school management system.

If students results change they should tell the Admission Centres or Universities that their results have changed as a result of the review and reconsideration process for them to re-retrieve the ATAR score.

An incremental ATAR process is run daily from shortly after results release to update for new or changed results in the last academic year (including late marks, reviews and reconsideration and summer school results) - this calculates a new rank based on the standard difficulties calculated earlier in the year. Students can move brackets without displacing other students as a result of the daily updates. The daily ATAR task turned off well before the new ATARs are calculated the following year.

The Australian education system treats New Zealand citizens as domestic interstate students who typically apply through a Tertiary Admission Centre. All others are treated as international students and must apply as such. NZQA recommends students contact the institutions they wish to enroll at in advance to confirm the process they need to follow and documentation requirements.

NZQA does not provide students with official documentation of ATAR scores as they are only relevant for admission to Australian tertiary institutions and these institutions can access this information electronically.

Students can obtain their ATAR scores by contacting the PRS team (Psychometrics, Statistics and Reporting) at NZQA [+64 4 4633000](tel:+6444633000) or [0800 697 296](tel:0800697296) once NCEA results are released in January each year (or send an email to PRS@nzqa.govt.nz with full name, NSN, Date of Birth and last school attended before results release and NZQA will email the ATAR score once results are released – bypassing telephone queues associated with results release).

Some Specific Cases:

- In 2017 288 students gained 90 or more level 3 excellence credits (298 in 2016), not all of whom were in Year 13. If prior achievement is included, 586 students who achieved one or more level 3 standards in 2017 ended that academic year with 90 or more level 3 excellence credits (564 in 2016).
- There are about 32 students allocated to each 0.05 ATAR score.
- An ATAR of 99.50 or better means a student is in the top 0.50% of their cohort using an Australian measure of achievement based on NCEA level 3 results.
- A student with 90 excellence credits from internally assessed standards can receive a significantly different ATAR score to a student with 90 excellence credits from externally assessed standards.
- Two students with the same number of excellence credits from the same subjects could receive very different ATAR scores if they took different standards.
- A student achieving 112 excellence credits from only 3 subjects (eg 36 in Health Education, 40 in Social Studies and 36 in Te Reo Rangatira) would only be able to use 72 of them for their ATAR due to the 24 credit maximum per subject rule and so could receive a different ATAR score to a student with only 90 excellence credits but made up of 18 from each of five subjects.

Statistical modelling and analysis of NCEA and New Zealand Scholarship assessment data

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New Zealand's main qualification system for senior secondary school comprises the three levels of the National Certificate of Educational Achievement (NCEA). These qualifications were introduced progressively, Level 1 first becoming available in 2002, Level 2 in 2003, and Level 3 in 2004. Additionally, the present system for awarding New Zealand Scholarship was first implemented in 2005. The NCEA system has several features that are quite unique, and that afford schools the opportunity to develop their own assessment programmes for a wide variety of courses in traditional, emerging, and cross-disciplinary subject areas. Those features of the NCEA system that afford this flexibility also present challenges from the psychometric point of view. In this paper, we describe a range of statistical modelling and analyses undertaken by the New Zealand Qualifications Authority (NZQA) to meet these challenges.

The NCEA system is criterion-referenced rather than norm-referenced. This means that assessment results depend on the performance of candidates against set criteria, rather than being determined relative to the performance of other candidates.

Criterion-referencing is not unique to NCEA. Indeed, a movement from norm-referenced to criterion-referenced assessment is evident in many assessment systems around the world (e.g. Australia and the United States). Criterion-referenced assessment results and qualifications arguably carry greater inherent meaning than those based on norm-referencing because, if a candidate meets the criterion for a particular result, it is possible, within the limits of the reliability and validity of the assessment, to certify him or her as competent in the specific skill or knowledge associated with that criterion. Under a norm-referenced system, the only information that can be inferred validly from a

candidate's result are the percentages of other candidates who demonstrated higher or lower performance.

From a psychometric perspective, running a high-quality criterion-referenced system is more challenging than running a norm-referenced system. Under the latter, all that is required is an accurate rank-order of the candidates, with normative scaling used to allocate final results on the basis of that rank order. Differences in the difficulty of an assessment (for example, a formal examination) from year to year do not affect outcomes unless these would result in a different rank ordering of candidates.

Under a criterion-referenced system, however, the standard of performance commensurate with the criteria must be maintained over time. Under any assessment system the connection between candidates' performance in an assessment and the final results must entail expert judgement, and cannot be established on a purely statistical basis. However, in a large-scale criterion-referenced system such as NCEA, professional judgement requires a great deal of statistical and psychometric support if criteria are to be applied consistently across different assessors and over time.

Perhaps the most unique aspect of NCEA is its decomposition of assessment into units known as 'standards'. Whereas, under most secondary assessment systems internationally, candidates receive a single result for each subject they have studied, under NCEA candidates receive multiple results, each certifying specific skills and knowledge. For example, there is a trigonometry standard, called *Solve right-angled triangle problems*, and another pertaining to English-language literacy called *Read and understand unfamiliar texts*.

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Michael Johnston has recently commenced as a senior lecturer in the School of Educational Policy and Implementation at Victoria University. He was previously a senior statistician at the New Zealand Qualifications Authority, where he conducted research, analysis and evidence-based policy development for a range of reforms to assessment systems for NCEA and New Zealand Scholarship. Dr Johnston qualified for his PhD at the University of Melbourne. He has extensive experience in experimental psychology and other quantitative research in social science and education. He is a member of the New Zealand Assessment Academy and of the Technical Overview Group (Assessment), an independent committee of academics providing technical advice to NZQA.

David Lillis is a senior statistician with the New Zealand Qualifications Authority (NZQA). He holds a PhD from Curtin University in Western Australia. At NZQA he conducts a wide range of data analysis, including the analysis of NCEA and New Zealand Scholarship results. In particular, he writes software in the R language for Item Response Theory as one approach to ensuring the high quality of secondary examinations. Dr Lillis is a past president of the New Zealand Association of Scientists.



It is this aspect of NCEA that affords its great flexibility, because schools can choose standards that best reflect the content of their courses, and can assess cross-disciplinary courses by selecting relevant standards from more than one subject area. Nonetheless, maintaining consistency of assessment judgements over the approximately 700 standards that are derived from the New Zealand curriculum presents a difficult psychometric problem. In part, this is because there are so many standards, but mainly it is because the assessment for each standard is necessarily of shorter duration and entails a smaller volume of work than would be the case if assessment were conducted at the level of the subject. The difficulty that this situation presents is one of maintaining assessment reliability – shorter and smaller-volume assessments tend to have poorer reliability than longer or larger volume assessments (assuming similar assessment quality).

In this paper we describe a number of statistical processes that assist NZQA to meet the challenges posed by the design of NCEA in relation to external assessment; that is, assessment procedures designed and administered by NZQA, a large majority of which are time-limited examinations. Internal assessments, those designed and conducted in schools and moderated by NZQA, also comprise a very important component of NCEA, and NZQA does have procedures for monitoring the reliability of teachers' internal assessment judgements. However, discussion of these procedures is beyond the scope of the present paper.

The processes we discuss here are as follows: the development and use of Profiles of Expected Performance (PEPs), used as a guide to maintain standards during the marking of external assessments; a set of post-hoc analyses of NCEA examination results, carried out annually following each external assessment round in order to assess the performance of examination items and papers; and statistical procedures used to assist in the allocation of results for New Zealand Scholarship assessments, as well as analysis of the quality of these examinations.

The analyses described here are used to inform, rather than replace, expert judgement. Collectively, these procedures provide assessment practitioners with support for their professional judgement, and with information that enables them to maintain and improve their consistency in applying the various assessment criteria of each standard.

Profiles of expected performance

In the early years of NCEA it was found that, for many externally assessed standards, the proportions of candidates receiving each grade fluctuated from year to year. Given that the system was very new, some variations were to be expected. However, the size of the variation was, in many cases, large even in light of the circumstances. It soon became evident that some form of statistical support for professional judgement was required to maintain consistency in the application of the standards over time.

Profiles of Expected Performance (PEPs) were introduced in 2005 to address the problem of variations from the expected results distributions from one year to the next. The PEP gives a percentage range into which each grade – *Not Achieved* (N), *Achieved* (A), *Merit* (M) and *Excellence* (E) – is expected to fall. For example, we might expect that in a given standard 20–32% of candidates will earn an *Achieved* grade, or that 6–10% will receive *Excellence*. Figure 1 shows the 2010 PEP bands for the Level 3 Calculus standard 90636 (Integrate functions and use integrals to solve problems).

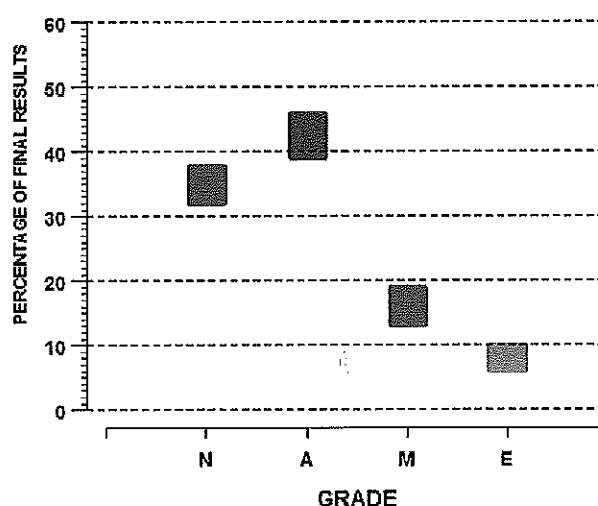


Figure 1. Profiles of Expected Performance for the Level 3 Standard: Integrate functions and use integrals to solve problems (2010).

It is not the intention of the PEP process to manipulate results to fit a pre-determined distribution. Rather, the expected statistical stability of distributions of large numbers of results is used to identify discrepancies that might signal a variation in the standard of performance required for particular grades. It is quite permissible for actual results to fall outside PEP ranges. However, when this occurs, there must be a defensible explanation for the discrepancy that does not entail any implicit change in the performance criterion.

If, during marking, it appears that any of the grades will fall outside the expected range for a particular standard, a discussion is held between NZQA and the leader of the marking panel to discuss reasons for the difference. If there is a legitimate reason (for example, that the characteristics of the cohort have changed in some way, or that there has been an overall improvement or deterioration in performance), then the distribution stands unchanged. If, on the other hand, the reason does not appear to be legitimate, then the marking schedule may be revised. For example, an easier examination than those of previous years is not an acceptable reason for result falling outside PEPs; notwithstanding the difficulty of an examination, candidates must meet the same standard each year in order to receive a particular grade.

A PEP is generated for each grade in each externally-assessed standard in which at least 300 candidates have entered. Below this number, the statistical stability of distributions of results is insufficient to justify the development of a PEP. All PEPs are set prior to each year's examination round, taking into account the history of results for the standard, as well as statistical estimates of the distribution expected on the basis of the previous year's candidature across other standards.

PEPs for standards with large cohorts are set with tighter confidence bands than those with smaller cohorts. Small cohorts lead to lower stability than large cohorts. A substantial change in cohort size from the previous year may also justify setting a larger confidence band, because usually it is not possible to predict in advance the characteristics of the larger cohort.

Draft PEPs are set initially on the basis of the history of results for the standard, as well as professional knowledge of the subject area and candidature. Usually the PEPs for a standard

will be the same or very similar from year to year. Following the development of the draft PEPs, other statistical information is taken into account, perhaps prompting a revision of the draft. This statistical information includes analysis of the difficulty of the standard and the overall ability of the cohort, based on the previous year's results.

Measurement of the difficulty of a standard T_i involves comparing the relative performance of candidates undertaking T_i with their performance on each other standard $T_{j1}, T_{j2}, \dots, T_{jn}$ that has an overlapping cohort (i.e. a set of candidates who undertake both assessments) with T_i . Figure 2 gives a diagram of this situation: there is a target standard, T_i , and two other standards with overlapping cohorts: T_{j1} and T_{j2} . (In a real world example there would be many overlapping standards.) The overlapping cohorts for the pairs T_i, T_{j1} , and T_i, T_{j2} are labelled c_{ij1} and c_{ij2} respectively.

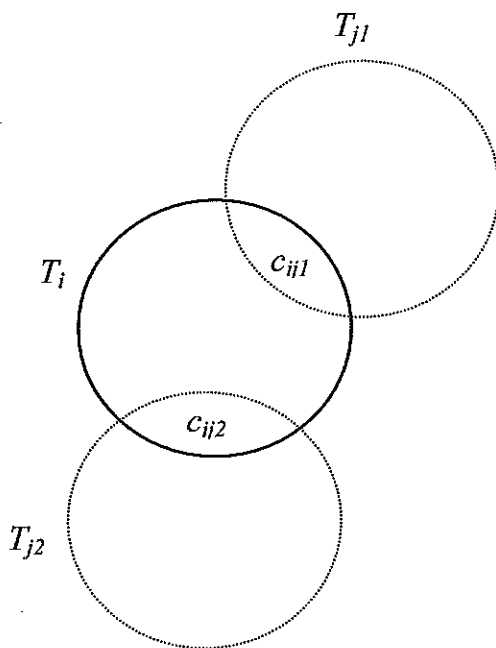


Figure 2. Diagram depicting overlapping cohorts for a target standard, T_i , and two other standards, T_{j1} and T_{j2} . The overlapping cohorts are designated c_{ij1} and c_{ij2} respectively.

Equation 1 provides a formal method for determining the difficulty of a target standard relative to other standards with overlapping cohorts. The difficulty of T_i compared to other standards can be estimated by calculating a mean difference in the rate of success for the cohort c_{ij1} on T_i and the rate of success for the same cohort on each other standard T_j .

The average differences in rates of success are in fact weighted averages, in which the magnitudes of the weights are determined by the relative sizes of the overlapping cohorts and by the correlation in performance between the target standard and each overlapping standard. Weighting by the size of the overlap places greater emphasis on comparisons involving standards with larger common cohorts, because larger overlaps result in more reliable comparisons.

The correlation in rate of success measures the extent to which performance in a pair of standards draws upon similar knowledge, skills, or cognitive functions. Clearly, if perform-

ance in two standards is uncorrelated (i.e. if the value of the correlation coefficient is zero), then the question of their relative difficulty does not arise. On the other hand, if performance in two standards were completely correlated (i.e. the value of the correlation coefficient were unity), then performance on one would be completely predictable from performance on the other, and they would be fully comparable in difficulty. In practice, correlations are never perfect, and although the theoretical minimum correlation is negative one (a negative correlation indicating an inverse relationship in performance), correlations in performance on pairs of standards as low as zero are very rarely, if ever, observed.

Equation 1 gives a mathematical expression that is used to calculate the relative difficulty of a standard using information on candidate performance across all standards held on NZQA's results databases.

$$D_i = \frac{\sum_{j=1}^n c_{ij} \rho_{ij} [R_{ij}(j) - R_{ij}(i)]}{\sum_{j=1}^n c_{ij}}$$

Equation 1. Difficulty (D) of a standard i , where c_{ij} is the number of candidates undertaking both standard i and each other standard j , ρ_{ij} is the magnitude of the correlation (Spearman's ρ) between standard i and each other standard j , $R_{ij}(i)$ is the rate of success in standard i of the overlapping cohort, $R_{ij}(j)$ is the rate of success of the overlapping cohort in standard j , and n is the total number of standards with cohorts overlapping that of standard i .

If the success rate in standard i is high (i.e. the standard is easier than an overlapping standard j), then the success rate of the overlapping cohort in that standard, $R_{ij}(i)$, is higher than the success rate of that cohort in the overlapping standard $R_{ij}(j)$. In this case the difference $R_{ij}(j) - R_{ij}(i)$ is negative and decreases D_i slightly. Conversely, standards that are difficult relative to comparison standards increase the magnitude of D_i . The denominator is the sum of all cohort sizes and is intended to constrain the magnitude of D_i to a useful range of values.

The cohort strength uses a slightly different comparison (see Equation 2).

$$S_i = \frac{\sum_{j=1}^n c_{ij} \rho_{ij} [R_{ij}(i) - R_j(j)]}{\sum_{j=1}^n c_{ij}}$$

Equation 2. Strength (S) of a cohort in standard i , where c_{ij} is the number of candidates undertaking both standard i and each other standard j , ρ_{ij} is the magnitude of the correlation (Spearman's ρ) between standard i and each other standard j , $R_{ij}(i)$ is the rate of success in standard i of the overlapping cohort, $R_j(j)$ is the rate of success in standard j of candidates undertaking standard j but not standard i , and n is the total number of standards with cohorts overlapping that of standard i .

In this case, rather than comparing rates of success of a cohort in a target standard with rates of success in other standards, we compare the performance of the cohort undertaking both the

target standard and each comparison standard, with the cohort undertaking the comparison standard only. If the cohort of the target standard is strong, then any subset of that cohort (that subset overlapping with comparison standards) will tend to have a higher rate of success on that standard than the cohort taking the other standards only. In this case the difference in rates of success will be positive and the estimate of cohort strength will be commensurately high.

Post-hoc analysis of NCEA external assessments (examinations)

Every year NZQA undertakes a variety of statistical analysis and modelling of NCEA examination results, to contribute to continuous improvement of the quality of examination items and papers, and marking procedures. These analyses include tests of the dimensionality of the examinations and the inter-correlations of the examination items (questions) in order to determine the extent to which they measure on a single continuum of performance. Further analyses use a specialised branch of psychometric statistics, *Item Response Theory* (IRT), to determine the extent to which examination items are of appropriate difficulty and that they discriminate sufficiently between candidates of varying abilities.

For each examination, a sample of results from 700 examination scripts, or as many as are available, is analysed, focusing both on the performance of each item and on the examination as a whole. The analyses are designed to assist examiners in developing future examinations, and to develop items that measure candidates' performance consistently, both with respect to the standards and with respect to other items.

External assessments (examinations) for NCEA are designed to assess on a single dimension of performance, so that a single criterion for each grade is located on that single dimension. This is in part because there are many standards, resulting in a relatively short examination time for each standard. Some are examined in as little as 40 minutes, although from 2013 the minimum examination time for any standards will be one hour. From a purely statistical perspective, measurement on a single dimension requires that the data (candidates' item-level results) can be fitted to a single (quantitative) scale. In fact, the IRT techniques used to assess the difficulty and discrimination of each item are predicated on uni-dimensionality.

We use Principal Components Analysis, a technique first discussed by Pearson (1901), to explore the dimensionality of the external assessments as reflected in candidates' item grades. Principal Components Analysis is a widely-used dimension reduction technique in which observations of correlated variables are expressed as linear combinations of those variables, each combination constituting a principal component (or dimension).

Each principal component accounts for a proportion of the total variance in the data. The first accounts for the greatest variance, and subsequent principal components account for progressively smaller proportions. One approach to depicting principal components graphically is the scree plot (Cattell 1966). Figure 3 shows a scree plot for the item-level results for a sample of 597 scripts from the 2010 Level 1 Biology examination for standard 90168 (Describe biological ideas relating to how humans use and are affected by micro-organisms).

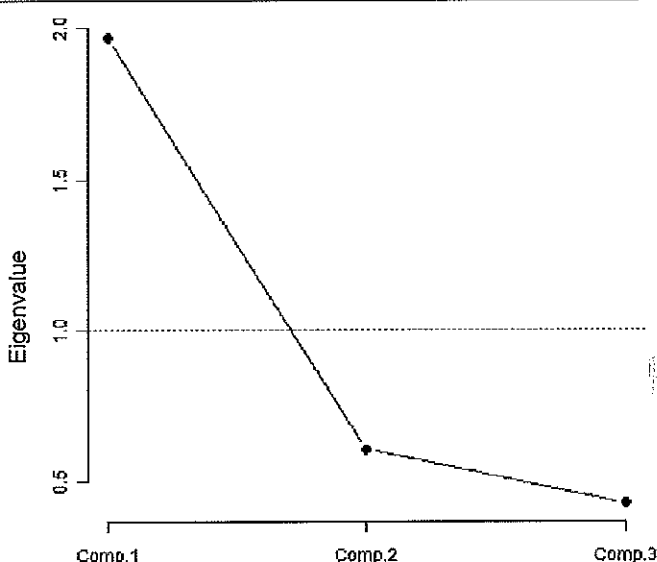


Figure 3. A scree plot showing the factor structure for the three item examination for Biology 90168 in 2010.

This particular examination comprised three items.

The vertical axis of the plot measures the magnitudes of the principal component eigenvalues. Eigenvalue magnitudes are proportional to the total variance in the data explained by each dimension. The horizontal axis of the plot displays each of the possible principal components or dimensions, one for each of the three items, arranged in order of decreasing magnitude.

How many significant dimensions (i.e. different kinds of skill or knowledge) are represented in Figure 3? One commonly-used criterion is that the eigenvalue of a significant dimension should be greater than 1. This criterion was proposed initially by Kaiser (1960), although other criteria for judging the significance of principal components have been suggested, often based on ratios of the first few eigenvalues. Because NCEA external examinations are designed to measure on a single continuum of performance, we expect only the first eigenvalue to explain a substantial fraction of the total variance.

The plot of Figure 3 suggests the presence of just one significant principal component, thus confirming the suitability of the data for the item response. We can identify those items that contribute to a particular dimension by examining the factor loadings (the correlation coefficients between the variables and principal components). Table 1 gives the factor loading of each item of the Biology examination on the first principal component.

Table 1. Item loadings on the first principal component for Biology 90168 (2010 examination round).

Item	Correlation with component 1
Q1	0.59
Q2	0.54
Q3	0.60

Loadings close to unity indicate strong relationships between the items and the components. If the examination results indicate only one dominant dimension, then most or all of the items have loaded strongly on the first principal component. Loadings above about 0.4 indicate substantial correlation with a principal component or dimension. Table 1 shows that the three items

of Biology 90168 all had moderately strong, and very similar, loadings on the first, dominant component.

For the purpose of quantitative analysis, we can treat the items on any examination that measures a single dimension as forming a distinct scale (i.e. a set of related items that measure collectively an aggregate of responses over those items). The squared factor loading gives the proportion of variance in the item results explained by a factor.

Table 2 shows two further measures of the internal consistency (or how closely related a set of item responses are when taken as a group) for the three items of the same examination for Biology 90168. These measures are the inter-item correlations and item-total correlations. They complement Principal Components Analysis in helping us to quantify the consistency of the item results and to establish the dimensionality of the examination. Both of these measures range from -1.0 to 1.0, though in practice we never encounter negative correlations between items.

Table 2. Inter-item and Item Correlations for the three items (Q1 - Q3) comprising the assessment for Biology 90168 in 2010.

Item	Q1	Q2	Q3	Total
Q1	1.00	0.43	0.58	0.60
Q2	0.43	1.00	0.44	0.49
Q3	0.58	0.44	1.00	0.60

Inter-item correlations indicate the strength of the relationships between pairs of items. Any two items that belong to the same dimension tend to exhibit strong inter-item correlation. Correlations between about 0.4 and 0.7 are considered optimal. Very high correlations (say about 0.85 or more) suggest redundancy (i.e. that we could have assessed the candidates' skills and knowledge with the same reliability using a shorter examination based on fewer items). From Table 2 we see that the correlations for the Biology standard 90168 are in this optimal range.

The item-total correlation for each item is given in the final column of Table 2. This measure is the correlation between the responses for each item and the sum of the responses for the remaining items. The item-total correlation assists in the identification of any items that are not consistent with the other items of the assessment scale. A value below 0.4 is taken as an indication that the item does not correlate well with the scale overall. In the development of psychometric tests and surveys, often such items are removed entirely. For the items of Table 2, we see that the item-total correlations of the Biology examination lie well above this threshold.

The third measure of internal consistency that we use for NCEA and New Zealand Scholarship is Cronbach's alpha (Cronbach 1951), another commonly-used measure, also ranging between -1.0 and 1.0. Cronbach's alpha can be expressed as a function of the number of test items and the average inter-correlation among the items. Cronbach's alpha tends to increase as the inter-correlations among the items increase.

The ideal range for Cronbach's alpha is from about 0.7 to about 0.85, values greater than 0.85 indicating strong homogeneity and possibly redundant items. Redundant items do not provide additional information about candidates, but simply add to the length of the assessment or test. Values substantially lower than 0.7 indicate that some items are not measuring on the same dimension as the examination as a whole.

Item Response Theory

Item Response Theory refers to a family of statistical models used to assess the quality of psychometric tests and assessments. IRT is used to inform the design, analysis and scoring of tests, questionnaires and assessment instruments, and measures abilities, attitudes and other latent traits. It is widely used internationally in the development and analysis of educational assessments.

The parameters of interest to NZQA are the difficulty of attaining a particular grade for each item, and the item discrimination, which measures how well an item discriminates between candidates of different abilities. A third parameter of interest is the ability, a measure of each candidate's performance across the entire examination (see a later section for a discussion of the ability parameter).

We use IRT to investigate the quality of our externally-assessed standards, and have developed several related approaches for conducting these analyses. Currently, we use a two-parameter graded-response model (Samejima 1969) to estimate both candidates' abilities and item parameters (discrimination and the difficulty of each assessment grade). Here, the probability of obtaining a particular grade or better (*Not Achieved*, *Achieved*, *Merit*, or *Excellence*), for a candidate of ability θ , is given by equation 3:

$$P_j(\theta) = \frac{\exp [ka(\theta - b_j)]}{1 + \exp [ka(\theta - b_j)]}$$

Equation 3. Probability of achieving a particular grade or better for a candidate of ability θ under Samejima's Graded Response Model (1969) on an item of difficulty b_j and discrimination a and where $k = -1.7$.

In equation 3 the subscript j indexes the assessment grades *Achieved* (A) or better, *Merit* (M) or better, and *Excellence* (E), θ is the calculated ability (which you can also think of as a measure of performance), P_j is the probability of achieving a particular grade or better for a candidate of ability θ , a is the fitted item discrimination, and b_j is the estimated difficulty of gaining either an A or better, M or better, or an E grade for the item. Equation 3 describes a logistic curve, and the constant k takes a value of 1.7, which scales the logistic curve such that it closely approximates a cumulative ogive. In the two-parameter model we are required to estimate the parameters a and each b_j (four parameters in total), in addition to candidates' ability parameters (one for each candidate).

Candidate ability

Ability is a multi-dimensional concept, and cannot be measured uniquely for any person. In fact, the constructs we wish to measure, such as mathematical, scientific or linguistic abilities, are actually a synthesis of many related abilities and skills. Abilities are calculated for each candidate on the basis of the entire complement of item grades. In fact, abilities estimated from IRT can provide better measures of performance than aggregates of marks or raw grade point averages, because ability estimates take explicit account of the discriminative and difficulty properties of each item.

In IRT we use an ability scale which may be thought of as representing the set of skills, abilities and knowledge that

contribute to performance. This scale is calibrated to have a mean of zero and ranges (theoretically) from negative to positive infinity. The units of ability are known as 'logits', where a logit is given by equation 4.

$$\text{logit}[P(\theta)] = \exp[ka(\theta - b_j)]$$

Equation 4. Definition of the logit – the unit of ability in psychometrics.

Item difficulty

For a dichotomous (two-category) item (yes or no; right or wrong, etc.), item difficulty is defined as the point on the measurement scale at which the probability of success is 0.5. For a polytomous item that carries several possible grades (usually the case for NCEA and tertiary examinations), we must estimate a difficulty parameter for each available grade, except the lowest.

Item discrimination

Item discrimination is the gradient of the item characteristic function at the point at which the probability of correct response is 0.5 (i.e. the value of the derivative of the function at this point), and theoretically can range between zero and infinity. The steeper the curve, the more highly the item discriminates between candidates of differing abilities, because, when the value of the gradient is high, small variations in ability give rise to significant differences in the probability of attaining a particular grade. However, very high discrimination values are undesirable for the same reason that very high item-total correlations are undesirable; they indicate redundancy amongst items. The ideal range for the discrimination is between about 1.0 and about 3.0. Table 3 shows the item parameters for the 2010 examination for Biology 90168.

Table 3. Difficulty and discrimination parameters for Biology 90168 under Samejima's Graded Response Model (1969).

Item	Discrimination	Difficulty (AME)	Difficulty (ME)	Difficulty (E)
Q1	1.51	-1.52	0.37	2.15
Q2	0.73	-2.57	0.59	4.68
Q3	2.43	-0.41	0.54	1.75

We see that all of the discrimination parameters of Table 3 fall within the desirable range. We also see that the items vary considerably in difficulty at each grade. In particular, it is relatively easy to obtain an *Achieved* grade or better in item 2 while for the same item it is very difficult to obtain *Excellence*.

Item characteristic curves

In IRT we depict graphically the performance of an item using item characteristic curves; plots showing the probability of achieving each available grade for an assessment as functions of candidates' ability. Figure 4 gives an example of a two-parameter item characteristic curve for an item that carries four grades, as is the case for NCEA external examinations and many examinations at tertiary level. The four curves represent the probabilities of achieving each grade for all candidates responding to the item. Each item in a given examination or test has its own unique set of characteristic curves.

The horizontal axis is the measurement scale on which candidates' abilities and item difficulties are estimated, and the vertical axis gives the probability of achieving a particular

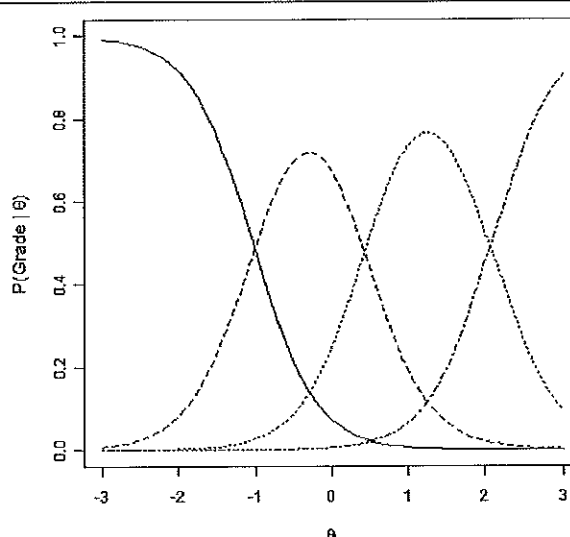


Figure 4. A typical set of item characteristic curves for NCEA external assessments constructed using Samejima's Graded Response Model (1969). The variable θ represents the measurement scale on which candidate ability and item difficulty are estimated.

grade. In this two-parameter item characteristic curve, and in equivalent plots later in this paper, the curve to the far left of the plot represents the probability of attaining a *Not Achieved* grade, and, moving left-to-right, the remaining curves represent the probabilities of attaining *Achieved*, *Merit*, and *Excellence*, respectively.

In implementing these models, we assume that we can characterise a candidate's performance with a single dimension. Of course, no examination actually measures just one cognitive construct, but often the skills or knowledge that we wish to measure are sufficiently strongly correlated that, statistically, they can be treated as representing a single dimension.

Figure 5 shows item response curves pertaining to the four items of the 2010 examination for the Level 2 Chemistry standard 90308 (Describe the nature of structure and bonding in different substances).

All four items discriminate well (as shown by the relatively steep slopes of the item characteristic curves), but items 1 and 3 discriminate the best of the four. For each item we see that there is a clearly defined domain of ability for which each grade is the most probable grade.

Grade thresholds

The threshold values for *Achieved*, *Merit*, and *Excellence* are defined as those locations on the ability axis at which results of *Achieved* and *Not Achieved*, *Merit* and *Achieved*, and *Excellence* and *Merit*, are, respectively, equally probable. Usually, we plot thresholds (values of θ_{NA} , θ_{AM} and θ_{ME}) on a dot chart, a particularly effective way of depicting grade thresholds. Figure 6 shows the threshold plot for the four items of the 2010 examination for the Level 2 Chemistry standard 90308 (Describe the nature of structure and bonding in different substances).

In this example none of the items are either particularly difficult or particularly easy. Additionally, the thresholds are reasonably (though not highly) consistent across the four items. There is no overlap between the domain in which the four *Achieved* thresholds fall, and that of the *Merit* grade. However,

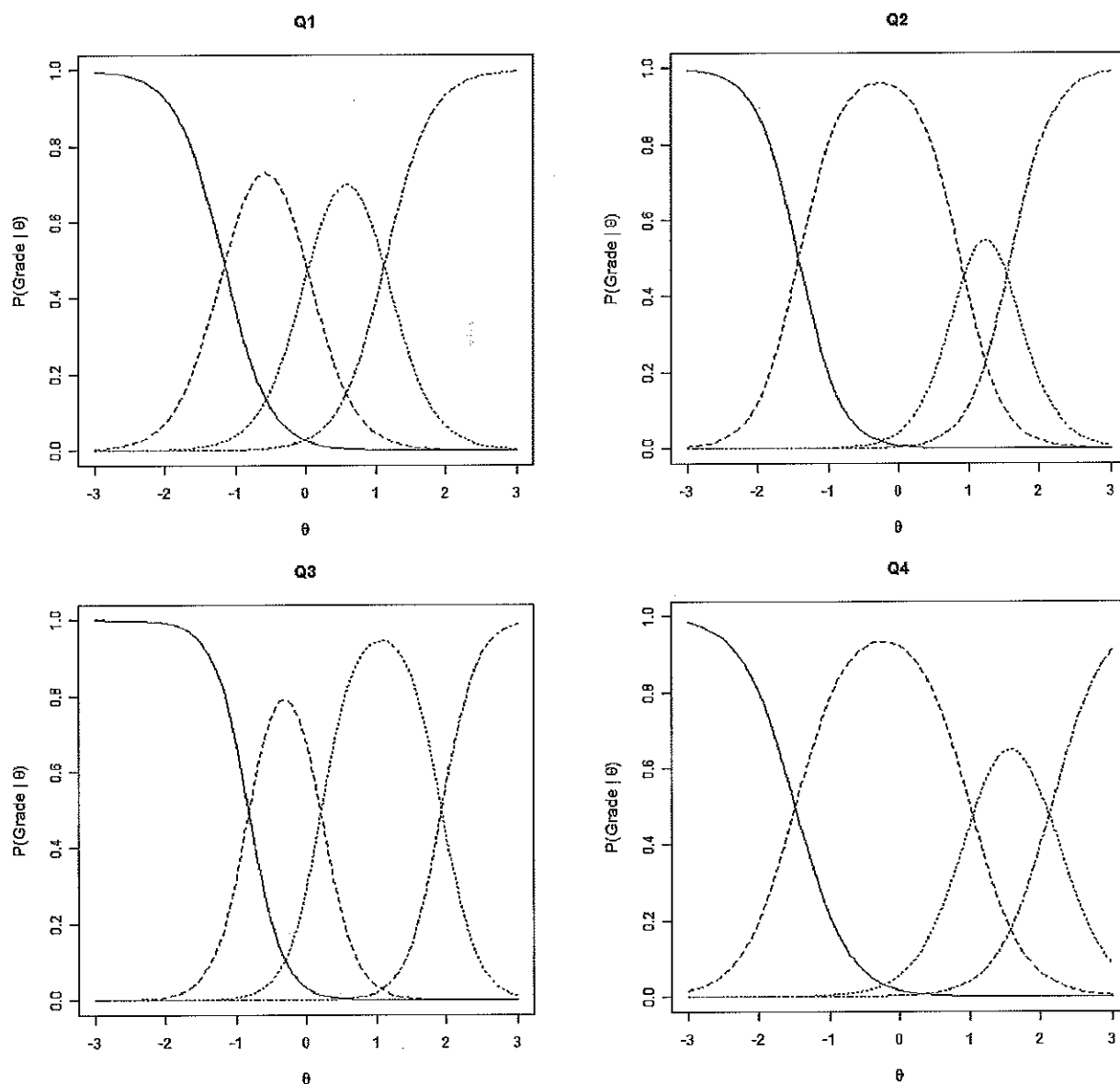


Figure 5. Item characteristic curves for the four items of the 2010 Level 2 Chemistry 90308 examination. From left to right the four curves represent the Not Achieved grade, the Achieved grade, the Merit grade and the Excellence grade. The variable θ represents the measurement scale on which candidate ability and item difficulty are estimated.

the *Merit* domain does overlap slightly with the *Excellence* domain; not a desirable property, although, in this case the overlap is not substantial.

Identifying item bias (differential item functioning)

Item bias, or differential item functioning (DIF), occurs when two or more groups of test or examination candidates, matched for overall ability, behave or perform differently on a particular item. We conduct DIF analysis in order to identify items that are possibly biased in favour of, or against, particular demographic groups (e.g. male or female candidates, or candidates identifying with different ethnic groups). Possibly, their different responses arise, not because one group of candidates has less knowledge of the subject matter, but because they held different assumptions initially or have had different cultural or other experiences.

During 2010 we developed analytic procedures for identifying DIF in NCEA assessments, based on those identified in the

literature (e.g. Zumbo 1999; 2007). We fit a series of ordinal logistic regression models to the results of groups of candidates that are matched for ability (e.g. males and females or students of different ethnicities). First, we fit a base ordinal logistic regression model (i.e. no covariates) to the set of item responses, then a regression with one covariate (e.g. group membership or gender). Finally, we fit more sophisticated models that include an interaction term (i.e. between ability and group membership or gender). These models are used to predict the item responses, where the main predictors are group membership and ability. For each model we calculate diagnostic statistics such as the log-likelihood and a Chi-square value (the log-likelihood for the base model minus the log-likelihood for each of the more complex models). Finally, the Chi-squared change for these models yields diagnostic statistics (i.e. the p-value and the R-squared change) which identify DIF. We detect the presence of DIF when the p-value is less than 0.05 and the R-squared change is greater than or equal to 0.035.

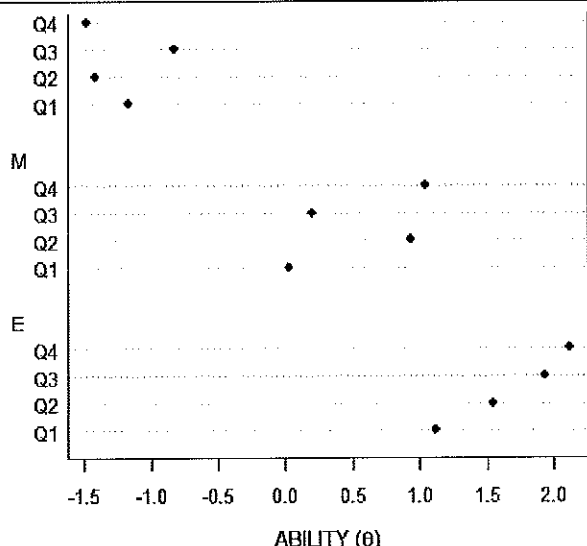


Figure 6. Grade thresholds for the four items (Q1–Q4) of the 2010 Chemistry 90308 examination. Thresholds represent the points on the measurement scale at which adjacent categories are equally probable.

We may observe either uniform or non-uniform DIF. We have uniform DIF when one group has a higher probability of success on an item across the full range of abilities. We have non-uniform DIF when one group has a higher probability of success on an item on one or more domain of abilities, but has a lower probability on other domains. Our models produce output such as that of Table 4, pertaining to item 1 of the 2010 examination for the Geography standard 90704 (Select and apply skills and ideas in a geographic context).

The above item involved identifying particular geographic features on a satellite image and answering various questions that involved map reading skills. We see that this item exhibited uniform DIF between males and females (i.e. group membership was a significant predictor), but not between the ethnicity-based groups. Precisely why the item favoured males is not clear, but subject matter experts can often assist in such questions. It is important to note that the presence of DIF does not in itself establish bias. Bias is only established when the differential functioning is invalid in respect of the test construct, and the professional judgement of subject-matter experts is required to make this determination.

We can depict graphically the presence or otherwise of DIF. Figure 7 illustrates the presence of uniform DIF between male and female candidates for the above item. Note that the probability of success in the item is greater for male candidates than for female candidates across the entire ability domain.

To illustrate DIF we group the ability scores of all candidates in a set number of bins (here we use 12 bins, each of width 0.5 logits). We then plot

Table 4. Results of an analysis of Differential Item Functioning for item 1 from the 2010 examination for the Level 3 Geography standard 90704.

Comparison Groups	Uniform	Non-uniform
Male – Female	Yes	No
European – Māori	No	No
European – Pasifika	No	No
European – Asian	No	No

cumulative proportions of each subgroup (in this case males and females) attaining *Achieved*, *Merit* or *Excellence* grades (and whose estimated abilities fall within each bin), against the mean ability for each bin. For this particular item, across the entire domain of abilities, males were more successful than females. Nonetheless, our analyses of the results distributions of recent (i.e. the 2009 and 2010) examinations across many subjects and standards has revealed very little evidence of DIF.

New Zealand Scholarship: A hybrid of standards-based and normative assessment

New Zealand Scholarship examinations are designed to recognise high-level performance in a range of subjects (currently 35 subjects). Two passing grades are available for each subject: *Scholarship* and *Outstanding Scholarship*.

Results are awarded through a hybrid of normative assessment (in which candidates' grades depend on their performances relative to those of other candidates) and criterion-referenced assessment (in which candidates must satisfy established criteria for each available grade). In assessing candidates' scripts, each item is given a numerical (ordinal) score from 0 to 8, and the scores for individual items summed to produce an overall score for the script. Scores from 0 – 4 equate to a *No Award* grade; scores of 5 and 6 equate to a *Scholarship* grade, while scores of 7 and 8 equate to an *Outstanding Scholarship* grade.

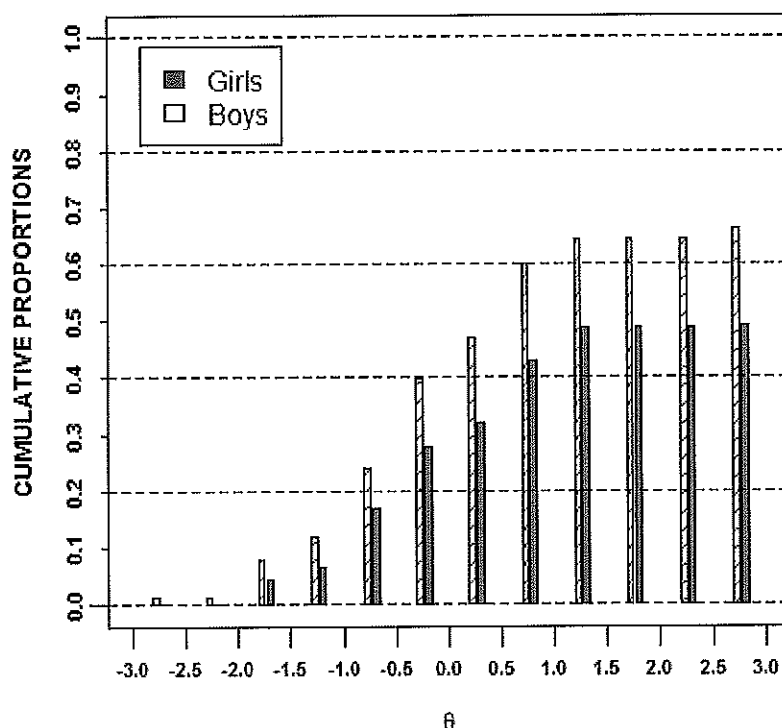


Figure 7. Graphical depiction of Differential Item Functioning for item 1 from the 2010 Geography standard 90704.

Finally, a pair of cut scores, which define the range of total scores for award of Scholarship and Outstanding Scholarship for each script, is agreed. These cut scores are set so that about 3% of the NCEA Level 3 cohort, defined as the total number of candidates who have entered for 14 or more credits for NCEA Level 3 in that subject (not to be confused with the total number of students who have entered for the examination, which is usually a much smaller number), will receive a Scholarship, and about 0.4% will receive an Outstanding Scholarship. This is the normative part of the Scholarship assessment process.

Each script must include at least one item at Scholarship level if a Scholarship is to be awarded, and each script must include at least one item at Outstanding Scholarship level if an Outstanding Scholarship is to be awarded. If a script contains at least one item graded at 5 or 6, then we can say that the candidate has provided evidence of performance at Scholarship level, and similarly for Outstanding Scholarship level. This is the criterion-referenced part of the Scholarship assessment process.

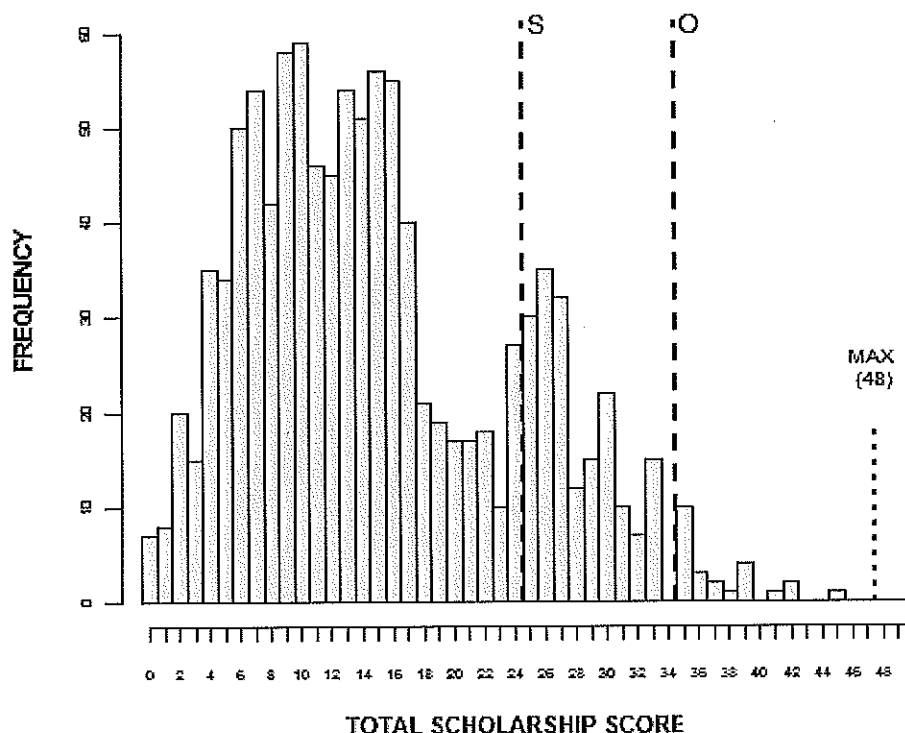
Awarding New Zealand Scholarship

Let us consider the 2010 Scholarship examination in Physics. This examination involved six items, so that the maximum possible score was 48. Following completion of the marking process, the cut score for Scholarship Physics was agreed at 25 (i.e. roughly 3% of the Physics Level 3 cohort) and the cut score for Outstanding Scholarship was set at 35 (roughly 0.4% of the cohort). Figure 8 gives a bar chart of total scores for the six-item 2010 Scholarship examination in Physics. The vertical lines indicate the cut scores for Scholarship (S) and Outstanding Scholarship (O) awards in that subject.

The bar chart shows a very wide range of performances on this examination. The Scholarship cut score of 25 was chosen so that roughly 3% of the cohort earned that score or above, all candidates at this score or above receiving at least one score of 5 over the complement of six items. The Outstanding Scholarship cut score of 35 was chosen so that roughly 0.4% of the cohort earned that score or above, all candidates at this score or above earning at least one score of 7.

The bar chart shows a highly skewed distribution of scores, a desirable characteristic in an examination that is designed to challenge top students. The positively-skewed distribution indicates that the test provides the most reliable information in the region of performance in which cut scores are likely to be set; around the midpoint of the total-score range for the *Scholarship* cut, and the three-quarters point for the *Outstanding Scholarship* cut.

Figure 8. Bar chart of total scores for the 2010 NZ Scholarship Physics examination, with Scholarship and Outstanding Scholarship cut scores (25 and 35 respectively).



Statistical modelling of New Zealand Scholarship

For all New Zealand Scholarship examinations we conduct similar analyses to those conducted for NCEA; dimensional analysis, IRT, etc, although the scholarship analyses are implemented on the full set of results, rather than on a sample. However, one additional analysis involves characterising the relationship between the results attained by Scholarship candidates in NCEA Level 3 in a given subject and their results in the Scholarship examination. Figure 9 gives a scatter-plot relating candidates' performances in the Level 3 Physics standards against their performances in Scholarship Physics. The vertical axis gives the mean expected percentiles (a measure of performance expressed as the expected percentile of the Level 3 candidature earned by the 'typical' candidate who has earned a particular grade in one of the external assessments) for each of the Level 3 Physics assessments taken by each candidate. The horizontal axis gives the total score earned by each candidate in the 2010 Scholarship Physics examination.

What exactly is a mean expected percentile? Let's illustrate using the Level 3 Physics examination for the four-credit Level 3 standard 90520 (Demonstrate understanding of wave systems). The national grade distribution for this examination was as follows: *Not Achieved* (24.0%), *Achieved* (54.5%), *Merit* (15.4%) and *Excellence* (6.2%). In the absence of precise information about any given student, our best estimate is that a student earning a *Not Achieved* grade sits at 12% of the candidature from the lowest score (i.e. the 12th percentile). Our best estimate is that a student earning an *Achieved* grade sits at 24% plus half of 54.5% (or the 51st percentile) from the lowest scoring candidate. Similarly, our best estimate is that a student earning a *Merit* grade sits at the 86th percentile, and a student earning an *Excellence* grade sits at the 97th percentile. Of course, each Scholarship candidate who took NCEA (some take other assessments such as Cambridge International Examinations or the International Baccalaureate) will have gained a particular set

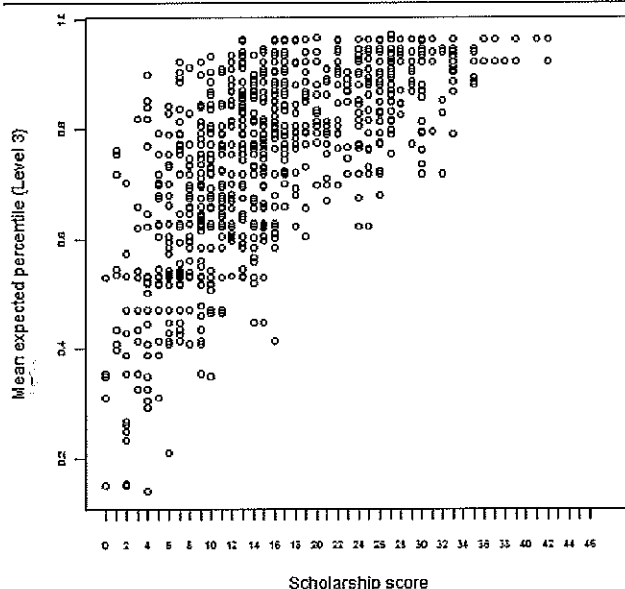


Figure 9. A plot of the mean expected percentiles for the 2010 Level 3 results for all Scholarship candidates in Physics against their total scores for the 2010 NZ Scholarship Physics examination.

of results in one or more of the four Level 3 Physics standards, and each is accorded a mean expected percentile for each of his or her Level 3 assessments. It is these percentiles, expressed as decimals, that are recorded on the vertical axis of Figure 9.

Essentially, this analysis illustrates the power of NCEA Level 3 in predicting performance in New Zealand Scholarship. In general terms the greater the mean expected percentile of the Level 3 assessments, the greater is the total Scholarship score. The relationship appears to be almost linear up to a Scholarship score of about 16, after which the curve levels off somewhat.

Figure 9 illustrates a particularly desirable attribute of a Scholarship examination: it extends the top end of performance of the Level 3 cohort. Students scoring in the top half of the Scholarship range typically achieve results at *Merit* and *Excellence* at Level 3. The examination has displayed discriminative power at higher levels of candidate performance than the Level 3 examinations.

Summary

Statistical modelling of NCEA and New Zealand Scholarship results provides very valuable feedback that supports ongoing improvement of our assessment processes. In addition to the

analyses described in this paper, we undertake many other diagnostic analyses that help to ensure fair and consistent assessment. Further applications of IRT are anticipated for the future. Eventually, our modelling programme will support the creation of banks of strongly-performing items for use by examiners and teachers, and in which we can have a very high degree of confidence.

It is important to be clear that the programme of analysis presented here is statistical in nature and concentrates on properties internal to the assessments themselves. The analyses we have described are necessary to ensure that assessments measure reliably, efficiently and fairly. They are not, however, of themselves sufficient to ensure valid measurement. Validity is the most essential property of any assessment and requires substantial content knowledge and understanding of the purposes of the assessment. Nonetheless, an assessment without strong reliability or that is of inappropriate difficulty, will not be valid, regardless of its specific content. Thus, the analyses described in this paper are essential for ensuring fair, reliable and valid national assessments for secondary-school qualifications in New Zealand.

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Modelling the participation function with a one-parameter family of cubic splines

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19 May 2015

Abstract

We suggest that a simple one-parameter family of cubic spline functions would serve quite adequately as models of the participation curve that is the key component of ITI calculations. This would remove the subjectivity associated with the use of two-parameter logistic functions, and would allow all states to use the same method for ITI calculations.

1 Background

The calculation of the Interstate Transfer Index (ITI) involves calculating the “participation curve” in each state, which maps the ranking of a student within the group of students who are eligible for an ITI, to the ranking of the student within the total cohort of students. For the last 18 years, most states have modelled the participation curve using a two-parameter logistic function proposed by Tim Brown.

In 2014, the Australian Conference of Tertiary Admission Centres (ACTAC) decided that it was timely to review the methodology for calculating the Interstate Transfer Index (ITI). The impetus for the review came from several factors. The first was simply that the existing methodology had been in place for many years. A second, more important reason was an unease in some quarters with the subjectivity and lack of uniformity in applying the logistic model for determining the participation curve. A third motivation was the change in NSW where data that had been used in the ITI calculations were no longer available. In particular, this provided an anchor against which the calculations in the other states could be compared.

Two parameters are required to uniquely specify a logistic curve, and while there is reasonably good agreement about how one of these (the overall participation rate) is defined, there is no such agreement about a second. In NSW the two parameters were determined using logistic regression on data relating to completion rates and the rankings of Year 10 students. Year 10

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data has never been available in other states and is no longer available in NSW. For 2014 results, NSW continued to use logistic regression (NSW Universities Admission Centre, 2014), where the parameters were chosen to match historical data. There was also an adjustment to ensure that there was 100% participation at the highest ITI level.

Professor Tim Brown was appointed to conduct the review, and his report (Brown, 2015) was completed in January 2015. Brown essentially endorsed the status quo, but suggested that suitable data such as common pre-Year 12 assessment should be found and used to validate the choice of participation curves. The only such data currently available is Year 9 NAPLAN results. He indicated that an investigation of the association between Victorian NAPLAN results with Year 12 participation levels and ATARs confirmed that this data was indeed suitable, and he recommended that a wider investigation into the usefulness of NAPLAN results be carried out.

Brown (2015) also rejected a suggestion by the first author (Harrison, 2014) that a one-parameter family of power curves be used as participation curves, despite their advantages of simplicity and transparency. Brown noted that power functions did not give good matches for simulated populations with low participation rates.

Here we recommend the use of a different one-parameter family of functions as participation curves. These are cubic splines and, unlike power functions, their graphs have the sigmoid shape. This is a key feature of logistic curves and the few ‘real’ participation curves that are available.

Our investigations show that cubic splines provide very good matches to the actual 2014 data in most states. They can be applied without any reference to pre-Year 12 data such as NAPLAN data, and there is no subjectivity in their application as the one parameter can be calculated from the known state participation rate. We believe the simplicity and transparency of this approach resolves the existing problems with ITI calculations.

We describe the model in the following section, and demonstrate its application graphically on 2014 data in Section 3. We summarise our recommendations in Section 4.

2 A simple one-parameter participation curve

We propose a new model for the participation curve, $f_p(x)$, where p is the participation rate, x is the proportion ranking³ of a student within the group of students who are eligible for an ITI, and $f_p(x)$ is the proportion ranking of the student within the total cohort of students. There are no free parameters to be selected or to be estimated from data. The participation rate p determines the curve to be used.

³The “proportion ranking” takes values between 0 and 1 and gives the proportion of students who receive a score less than x . The usual percentile ranking is simply 100 times the proportion ranking.

The participation curve is defined as follows for $0.25 \leq p \leq 0.75$ (which currently includes all states except Queensland):

$$f_p(x) = \begin{cases} x^3/\alpha^2 & \text{if } 0 \leq x \leq \alpha; \\ 1 - (1-x)^3/(1-\alpha)^2 & \text{if } \alpha \leq x \leq 1; \end{cases} \quad (1)$$

where $\alpha = 1.5 - 2p$.

For $p > 0.75$ (which currently includes only Queensland), the participation curve is defined as

$$f_p(x) = 1 - (1-x)^{p/(1-p)}. \quad (2)$$

For $p < 0.25$ (which is unlikely to occur in any state in the near future), the participation curve is defined as

$$f_p(x) = x^{(1-p)/p}. \quad (3)$$

Figure 1 shows these participation curves for a range of values of p .

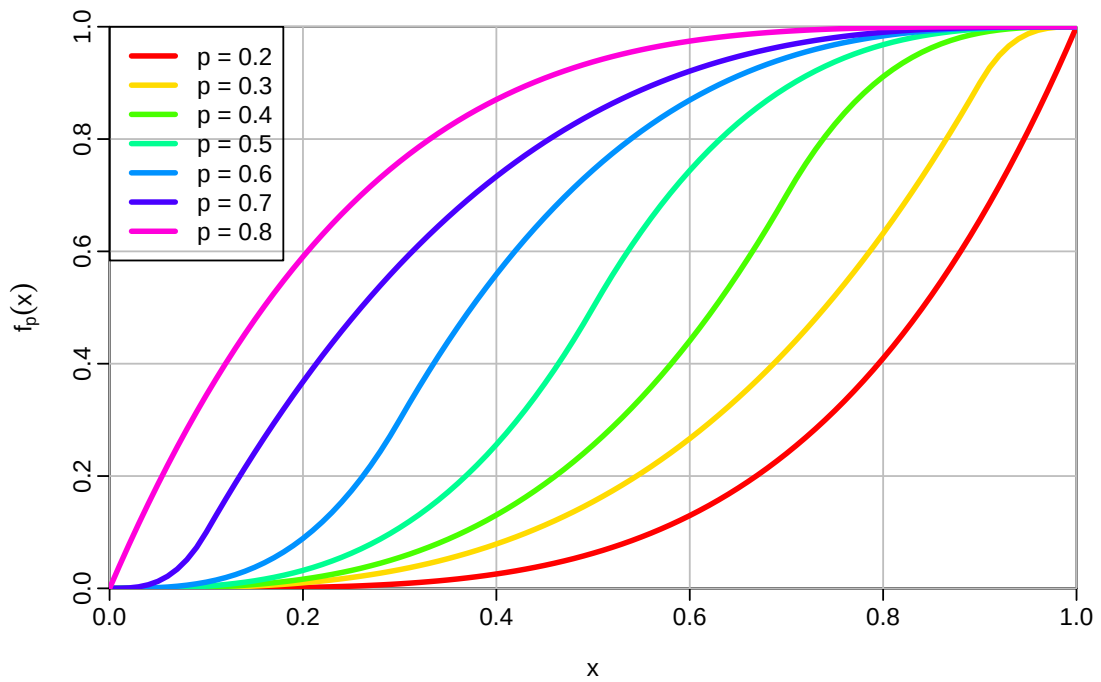


Figure 1: Participation curves for p between 0.3 and 0.8.

This family of functions has the following properties:

- The curves go through the points (0,0) and (1,1).
- The curves are continuous and monotonically increasing in both x and p .
- The area under the curves is equal to p in all cases.
- For $0.25 \leq p \leq 0.75$, the curves are cubic spline functions with a single knot at (α, α) .
- The curves are sigmoidal in shape for $0.25 \leq p \leq 0.75$.

3 Matching 2014 data

In this section we compare, for each Tertiary Admission Centre (TAC), the ITI values that actually occurred in 2014 (ACTAC, 2015), with the theoretical values from this participation model (i.e. the values that would have occurred if the above cubic spline model had been used).

Students are allocated an ITI within bands of width 0.05, from 0.00 to 99.95. Thus, there are 2000 ITI bands. To reduce the variation in the data, the 2000 ITI bands were aggregated into 200 ITI bands, each of width 0.50. The resulting numbers of students in these larger ITI bands are shown in Figure 2.

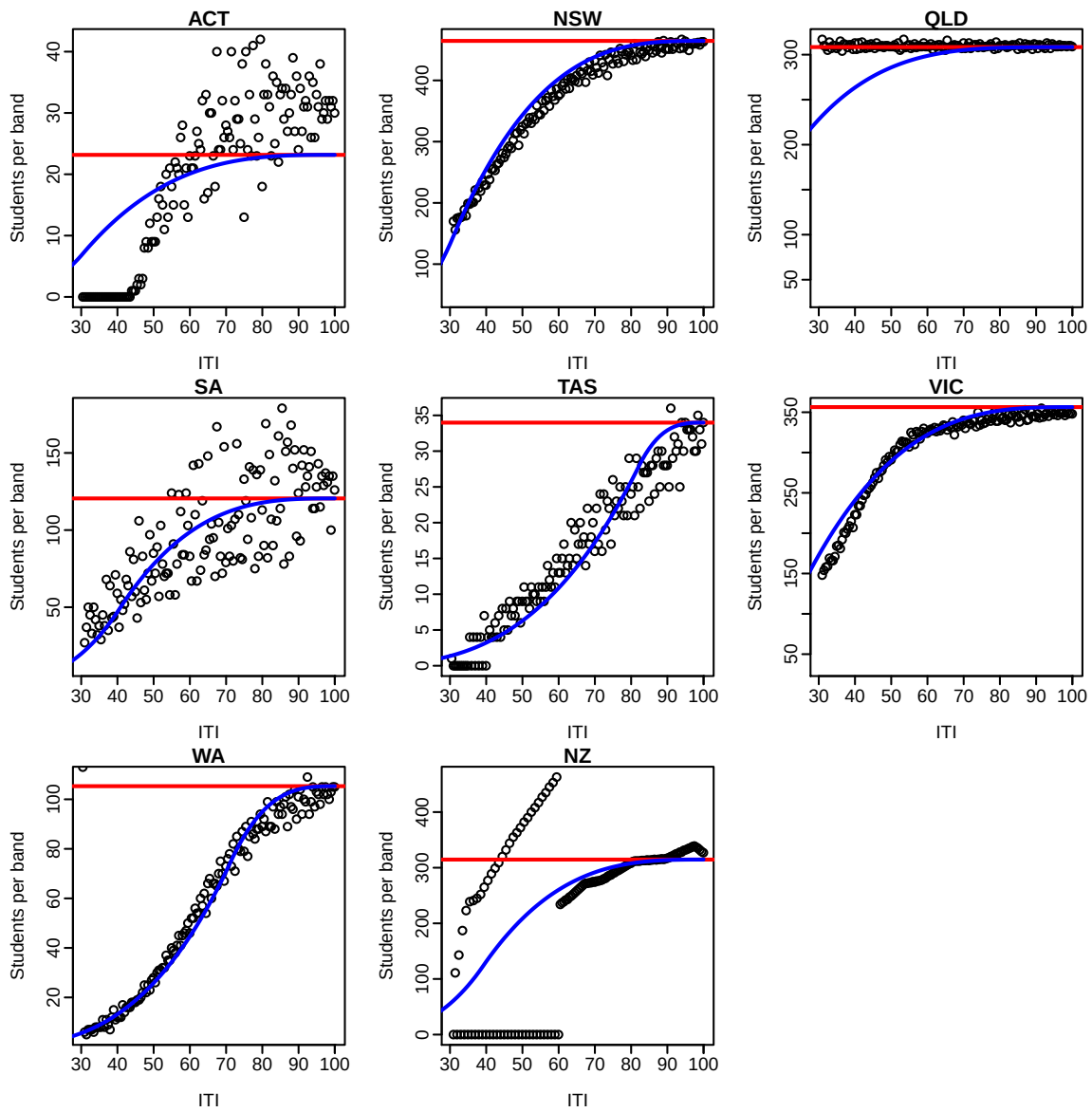


Figure 2

If there was a 100% participation rate, then we would expect 0.5% of the weighted cohort population to fall within each ITI band. The red line in each panel of Figure 2 shows this value for each state. The blue line shows the number of students that would have been in each ITI band if our proposed model had been followed.

The problems with ACT, Queensland and New Zealand were previously documented in Hyn-dman (2015) and will not be discussed further here. For the remaining states, there is close agreement with our proposed model.

Another way to look at the data is to consider cumulative percentages; these are the percentages of ITI eligible cohorts that receive ITIs in or above a given ITI band. We are particularly interested in differences between the actual and the theoretical cumulative frequencies.

Figure 3 shows that actual relative cumulative frequencies agree quite closely with theoretical ones for most TACs. This is particularly true for NSW and VIC, where the deviations are less than 4% over the entire ITI range and less than 2% for $ITI > 60\%$. SA and NZ slightly exceed the theoretical values at the higher ITI levels and are lower at lower ITI levels. The reverse is true for TAS, and for WA the actual values are slightly less than the theoretical ones across the entire range. The actual values in QLD exceed the theoretical ones across the entire ITI range, and the excess increases as ITI decreases.

Figure 4 show the differences between actual and theoretical relative cumulative frequencies at the critical top end of the ITI range.

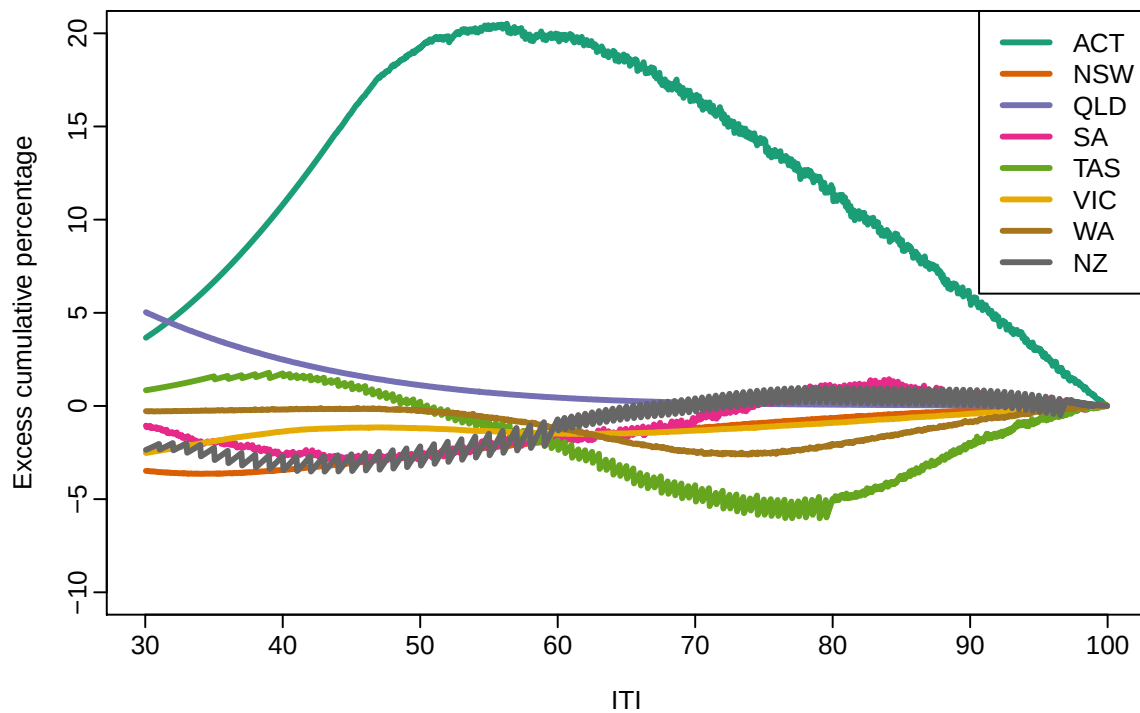


Figure 3: *Excess cumulative percentages per state under the cubic spline model.*

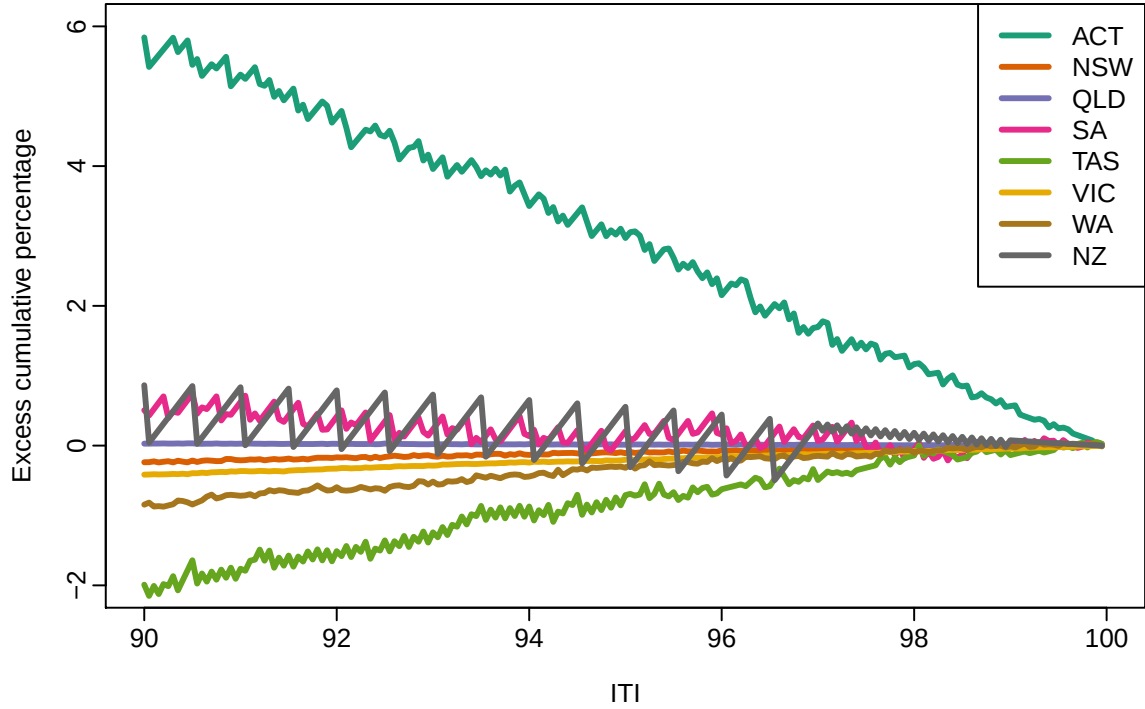


Figure 4: *Excess cumulative percentages per state for ITI > 90 under the cubic spline model.*

4 Summary

We have shown that a one-parameter family of cubic splines provides models of participation curves that give distributions of ITIs that closely match the actual distributions for most TACs. The reason for the close match is due to the sigmoid nature of the cubic spline graphs, a property shared with logistic functions and the few ‘actual’ participation curves that are available.

The single parameter is determined uniquely by the overall participation rate, and there is reasonably good agreement about how this is defined. Since the computations involved are straightforward, the use of cubic splines to model participation curves is both simple and transparent.

Brown (2015) makes a strong case for the need to validate any choice of method of producing participation curves with appropriate data, and we concur. It should be noted that the graphs of the cubic splines we propose are very similar in shape to the graphs of logistic functions, and they are entirely based on known data (the participation rates).

We believe that it is most unlikely that the rankings based on Year 9 NAPLAN results are so closely correlated with Year 12 ITI rankings that their use will lead to significantly better theoretical participation curves. Of course, this assertion can, and should, be tested. In the meantime, we suggest that it better to use the simpler model that we propose here.

Appendix: Mathematical discussion

Our participation model is given by (1). For $0.25 \leq p \leq 0.75$, this consists of a piecewise cubic function with the pieces joining at (α, α) . The function, and its first two derivatives, are continuous at (α, α) . Thus, it is a cubic spline with a single 'knot' at the point (α, α) which lies on the line $y = x$.

If $f_p(x)$ is the participation function, then the overall participation rate is the integral $\int_0^1 f_p(x)dx$. Elementary calculus shows that, for $0.25 \leq p \leq 0.75$,

$$\int_0^1 f_p(x)dx = \int_0^\alpha \frac{x^3}{\alpha^2}dx + \int_\alpha^1 \left(1 - \frac{(1-x)^3}{(1-\alpha)^2}\right)dx = \frac{\alpha^2}{4} + (1-\alpha) - \frac{(1-\alpha)^2}{4} = \frac{3}{4} - \frac{\alpha}{2} = p.$$

Similarly, for $p < 0.25$ and $p > 0.75$, it is easy to show that $\int_0^1 f_p(x)dx = p$.

Although the function definition changes at $p = 0.25$ and $p = 0.75$, there is a smooth transition at these points. Note from (1) that when $p = 0.25$, $\alpha = 1$ and $f_p(x) = x^3$. Similarly, when $p = 0.75$, $\alpha = 0$ and $f_p(x) = 1 - (1-x)^3$.

Some TACs choose the second parameter for the logistic model so that x_M , the ITI corresponding to a 50% participation rate ($f_p(x_M) = 0.5$), is a predetermined value. There is no such freedom with the cubic spline model. Elementary algebra shows that with a cubic spline, x_M and p are related as follows:

$$x_M = \begin{cases} 2^{p/(p-1)} & \text{if } 0 \leq p \leq 0.25, \\ (3-4p)^{2/3}/2 & \text{if } 0.25 \leq p \leq 0.5, \\ 1 - (4p-1)^{2/3}/2 & \text{if } 0.5 \leq p \leq 0.75, \\ 1 - 2^{1-1/p} & \text{if } 0.75 \leq p \leq 1, \end{cases} \quad (4)$$

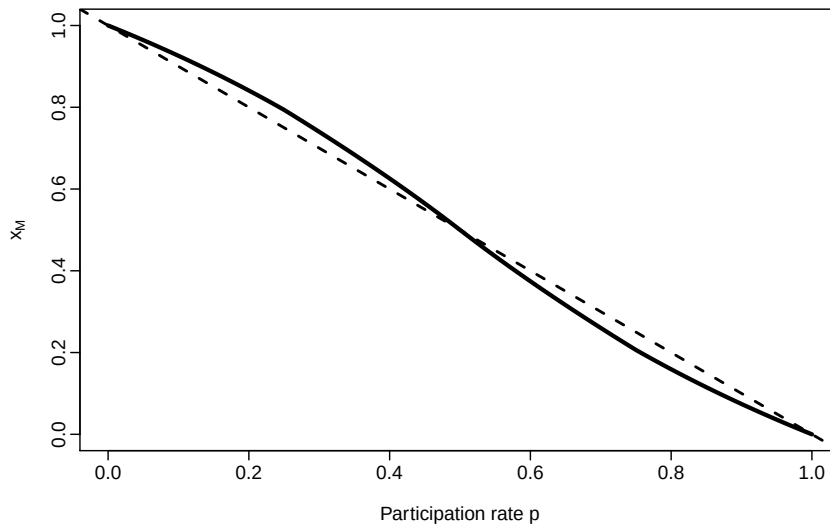


Figure 5: The solid line shows x_M as a function of the participation rate p . The dashed line is $1 - p$.

These are rather complicated and uninformative expressions. However the relationship between x_M and p is approximately linear. In fact x_M differs from $1 - p$ by less than 5% over the entire range of p values.

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Academic Year	Standard	Standard Version	Adjusted N Percentile	Adjusted A Percentile	Adjusted M Percentile	Adjusted E Percentile
2024	18		6 0	0.5	1	1
2024	18		7 0.049165426030363446	0.5491654260303634	1	1
2024	36		6 0	0.5	1	1
2024	37		6 0.030796687188765437	0.5258392562615064	0.993069161624682	0.9980265925519409
2024	43		8 0	0.5	1	1
2024	43		9 0	0.5	1	1
2024	43		10 0	0.5	1	1
2024	168		7 0.015489050719205366	0.5154890507192054	1	1
2024	168		8 0.05190190087927282	0.5519019008792728	1	1
2024	376		8 0	0.5	1	1
2024	376		9 0.021468394344792308	0.5214683943447923	1	1
2024	378		9 0.04039258596401951	0.5403925859640195	1	1
2024	409		4 0	0.5	1	1
2024	422		5 0	0.5	1	1
2024	422		6 0	0.5	1	1
2024	424		8 0.024438564430699083	0.524438564430699	1	1
2024	427		8 0.07188970813475526	0.5718897081347553	1	1
2024	428		9 0.0644300558998015	0.5644300558998014	1	1
2024	571		5 0	0.5	1	1
2024	572		5 0.0025155745478401825	0.49829133744221715	0.9944495713703758	0.9986738084759987
2024	572		6 0.02524284727511289	0.5210186101694898	0.9944495713703758	0.9986738084759987
2024	573		5 0	0.5	1	1
2024	581		5 0	0.5	1	1
2024	582		5 0	0.5	1	1
2024	771		5 0	0.5	1	1
2024	831		6 0	0.5	1	1
2024	898		5 0.20573140688718577	0.7057314068871858	1	1
2024	920		5 0.052699064623417946	0.5513911747617933	0.9984501099745465	0.9997579998361712
2024	1152		10 0	0.5	1	1
2024	1159		13 0	0.5	1	1
2024	1163		10 0	0.5	1	1
2024	1174		9 0.17497615664995603	0.674976156649956	1	1
2024	1204		8 0	0.5	1	1
2024	1204		9 0	0.5	1	1
2024	1221		7 0	0.5	1	1
2024	1221		8 0	0.5	1	1
2024	1221		9 0	0.5	1	1
2024	1234		9 0	0.5	1	1
2024	1252		8 0	0.5	1	1
2024	1256		8 0	0.5	1	1
2024	1279		7 0.15581872371455102	0.655818723714551	1	1
2024	1279		8 0.047317388908328095	0.547317388908328	1	1
2024	1296		7 0.09714821343128843	0.5971482134312884	1	1
2024	1296		8 0.057485855587112444	0.5574858555871125	1	1
2024	1297		7 0.04285714285714287	0.5428571428571429	1	1
2024	1297		8 0.03731343283582089	0.5373134328358209	1	1
2024	1304		9 0.05630337898943649	0.5563033789894365	1	1
2024	1304		10 0.13588295856901605	0.635882958569016	1	1
2024	1307		8 0.06827012738722193	0.5682701273872219	1	1
2024	1307		9 0.06195465675592732	0.5619546567559273	1	1
2024	1312		7 0	0.5	1	1
2024	1312		8 0.02719199481875606	0.527191994818756	1	1
2024	1620		6 0	0.5	1	1
2024	1626		6 0	0.5	1	1
2024	1629		7 0	0.5	1	1
2024	1650		8 0.1379972899945333	0.6379972899945333	1	1
2024	1651		6 0	0.5	1	1
2024	1672		6 0	0.5	1	1
2024	1734		8 0.010846524975875627	0.5108465249758756	1	1
2024	1753		7 0	0.5	1	1
2024	1768		6 0	0.5	1	1
2024	1810		9 0	0.5	1	1
2024	1818		8 0.15936350490488443	0.6593635049048845	1	1
2024	1980		9 0.025051767853186857	0.5250517678531869	1	1
2024	1980		10 0.03925263675365026	0.5392526367536503	1	1
2024	2436		8 0.06657697962806025	0.5665769796280602	1	1
2024	2571		11 0.09580340894154998	0.59580340894155	1	1
2024	2595		11 0.05638200210101024	0.5563820021010102	1	1
2024	2597		11 0.02702702702702703	0.527027027027027	1	1
2024	2671		8 0	0.5	1	1
2024	2672		7 0.010628562330325442	0.5106285623303255	1	1
2024	2672		8 0.020541521711369914	0.5205415217113699	1	1
2024	2675		8 0	0.5	1	1
2024	2676		9 0	0.5	1	1
2024	2678		8 0	0.5	1	1
2024	2678		9 0	0.5	1	1
2024	2680		8 0	0.5	1	1
2024	2682		7 0	0.5	1	1
2024	2682		8 0	0.5	1	1
2024	2685		8 0	0.5	1	1

2024	2686	8 0	0.5	1	1
2024	2688	9 0	0.5	1	1
2024	2689	8 0	0.5	1	1
2024	2797	8 0	0.5	1	1
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2024	3047	9 0	0.5	1	1
2024	3060	9 0	0.5	1	1
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2024	3272	5 0	0.5	1	1
2024	3285	5 0	0.5	1	1
2024	3286	5 0	0.5	1	1
2024	3287	5 0	0.5	1	1
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2024	3466	8 0	0.5	1	1
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2024	6950	7 0	0.5	1	1
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2024	10851	4 0.0013770192279647375	0.5013770192279647	1	1
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2024	11095	8 0.14195107541199287	0.6419510754119928	1	1

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2024	11818	7	0	0.5	1	1
2024	11827	5	0	0.5	1	1
2024	11831	7	0.08941317841765634	0.5894131784176564	1	1
2024	11831	8	0.0017720613647745909	0.5017720613647746	1	1
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2024	12003	9	0	0.5	1	1
2024	12009	7	0	0.5	1	1
2024	12309	6	0	0.5	1	1
2024	12310	6	0	0.5	1	1
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2024	12728	6	0	0.5	1	1
2024	12730	6	0	0.5	1	1
2024	12997	5	0.005301688610952815	0.5053016886109528	1	1
2024	12998	5	0	0.5	1	1
2024	12999	5	0.01486236912585559	0.5148623691258556	1	1
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2024	13015	4	0	0.5	1	1
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2024	13016	6	0.0023646257308294616	0.4998450318629494	0.99748040613212	1
2024	13031	4	0	0.5	1	1
2024	13037	4	0.012271526386561427	0.5122715263865614	1	1
2024	13037	5	0.09441438352941856	0.5944143835294186	1	1
2024	13038	4	0.03138983818847796	0.531389838188478	1	1
2024	13038	5	0	0.5	1	1
2024	13039	4	0.031335055934582856	0.5313350559345829	1	1
2024	13039	5	0	0.5	1	1
2024	13053	4	0.01563237189531419	0.5138224705083374	0.9981900986130231	1
2024	13053	5	0.00970742126990276	0.5078975198829259	0.9981900986130231	1
2024	13053	6	0	0.49819009861302316	0.9981900986130231	1
2024	13282	6	0.04791792451123922	0.5479179245112392	1	1
2024	13288	6	0.015728035947040697	0.5157280359470406	1	1
2024	13293	6	0.02439333309094799	0.524393333090948	1	1
2024	13299	7	0	0.5	1	1
2024	13300	6	0.022880344093958394	0.5228803440939584	1	1
2024	13301	6	0	0.5	1	1
2024	13304	7	0.014644525453076651	0.5146445254530767	1	1
2024	13310	6	0.03288848450829357	0.5328884845082935	1	1
2024	13314	7	0.05990855237519371	0.5599085523751937	1	1
2024	13315	6	0.019918784180268767	0.5199187841802688	1	1
2024	13316	6	0.0661951836871883	0.5661951836871884	1	1
2024	13319	6	0.04545454545454547	0.5454545454545454	1	1
2024	13322	6	0.023595157213151086	0.5235951572131511	1	1
2024	13325	6	0.04865500197034761	0.5486550019703476	1	1
2024	13329	6	0	0.5	1	1
2024	13331	6	0.048049339515034595	0.5480493395150345	1	1
2024	13332	6	0	0.5	1	1
2024	13333	6	0	0.5	1	1
2024	13336	6	0	0.5	1	1
2024	13343	7	0.08086352077048736	0.5808635207704873	1	1
2024	13360	8	0.012684989429175453	0.1168359698247955	0.30972978434780024	0.7055788039521802
2024	13364	8	0.013953488372093037	0.13501121844298258	0.4762484618025115	0.855190731731622
2024	13368	9	0	0.25506113205615344	0.5911419487723792	0.8360808167162258
2024	13372	9	0	0.3062996649929437	0.574184038505401	0.7678843735124573
2024	13373	9	0	0	0.45196229848074965	0.9519622984807496
2024	13387	4	0	0.5	1	1
2024	14139	6	0	0.5	1	1
2024	14420	8	0.002630152867608593	0.5026301528676086	1	1
2024	14432	7	0	0.5	1	1
2024	14441	6	0.0016737723951086858	0.49812743029404516	0.994650781531383	0.9981971236324466
2024	14441	7	0.023786794508130815	0.5202404524070673	0.994650781531383	0.9981971236324466
2024	14454	7	0	0.5	1	1

2024	14454	8 0	0.5	1	1
2024	14609	2 0	0.5	1	1
2024	14996	6 0	0.5	1	1
2024	14997	7 0	0.5	1	1
2024	14998	7 0.0979075857697232	0.5979075857697231	1	1
2024	15020	8 0.03424165407738372	0.37308184534292155	0.7956383748854943	0.9567981836199565
2024	15137	4 0	0.5	1	1
2024	15158	5 0	0.5	1	1
2024	15275	6 0.026038586109708606	0.5260385861097086	1	1
2024	15299	6 0	0.5	1	1
2024	15299	7 0	0.5	1	1
2024	15310	7 0	0.5	1	1
2024	15446	4 0.07872738013947017	0.5787273801394701	1	1
2024	15500	8 0	0.5	1	1
2024	15609	4 0	0.5	1	1
2024	15757	5 0	0.5	1	1
2024	15844	7 0.06515957166634256	0.5651595716663426	1	1
2024	15844	9 0.11873100023777111	0.6187310002377711	1	1
2024	15855	6 0	0.5	1	1
2024	15855	7 0	0.5	1	1
2024	15866	6 0	0.5	1	1
2024	15866	7 0	0.5	1	1
2024	16030	6 0	0.5	1	1
2024	16032	6 0.20791787963837877	0.7011858616740586	0.9929037987186953	0.9996358166830154
2024	16034	6 0.09418978415174445	0.5863350916419733	0.989864298347938	0.9977189908577092
2024	16041	7 0.09611148373576023	0.5961114837357602	1	1
2024	16042	5 0	0.5	1	1
2024	16042	6 0	0.5	1	1
2024	16049	5 7.990274397088326E-4	0.5007990274397088	1	1
2024	16049	6 0.08651331315399452	0.5865133131539946	1	1
2024	16050	6 0	0.5	1	1
2024	16051	6 0	0.5	1	1
2024	16052	6 0	0.5	1	1
2024	16053	6 0	0.5	1	1
2024	16056	6 0	0.5	1	1
2024	16057	6 0.4	0.9	1	1
2024	16059	6 0	0.5	1	1
2024	16136	10 0.10124280934173896	0.601242809341739	1	1
2024	16139	7 0	0.5	1	1
2024	16139	8 0	0.5	1	1
2024	16143	9 0.08072060271585985	0.5807206027158598	1	1
2024	16167	7 0.13636363636363635	0.6363636363636364	1	1
2024	16337	5 0	0.5	1	1
2024	16337	6 0	0.5	1	1
2024	16340	5 0	0.5	1	1
2024	16340	6 0	0.5	1	1
2024	16407	7 0.024120110968671227	0.5241201109686713	1	1
2024	16407	8 0.016981416329976573	0.5169814163299766	1	1
2024	16560	5 0	0.5	1	1
2024	16673	5 0	0.5	1	1
2024	16673	6 0	0.5	1	1
2024	16701	4 0	0.4886411018872695	0.9809195220904785	0.992278420203209
2024	16701	5 0	0.4886411018872695	0.9809195220904785	0.992278420203209
2024	16702	4 0	0.5	1	1
2024	16702	5 0	0.5	1	1
2024	16703	4 0	0.5	1	1
2024	16703	5 0	0.5	1	1
2024	16705	6 0.0015608839811688813	0.5015608839811689	1	1
2024	16705	7 0.0066629247974954176	0.5066629247974954	1	1
2024	16712	3 0	0.5	1	1
2024	16718	5 0.011279007458463886	0.5112790074584639	1	1
2024	16718	6 0.011279007458463886	0.5112790074584639	1	1
2024	16718	7 0.15413615031560673	0.6541361503156067	1	1
2024	16800	4 0	0.5	1	1
2024	16800	5 0	0.5	1	1
2024	16802	4 0.0037878787878787845	0.5037878787878788	1	1
2024	16802	5 0	0.5	1	1
2024	16850	7 0	0.5	1	1
2024	16856	5 0	0.5	1	1
2024	16856	7 0	0.5	1	1
2024	16857	5 0	0.5	1	1
2024	16857	7 0	0.5	1	1
2024	16870	5 0.012304776956432839	0.5123047769564328	1	1
2024	16871	3 0	0.5	1	1
2024	16871	4 0	0.5	1	1
2024	17164	4 0.13382032694284202	0.3954510059578419	0.6726672555727127	0.9110365765577129
2024	17164	6 0.1396118327343478	0.4108950214018573	0.6456402285456856	0.8743570398781761
2024	17167	3 0	0	0.4870684794957244	0.9870684794957244
2024	17167	4 0.15574256091650035	0.46274089927906753	0.7107334845249582	0.9037351461623911
2024	17167	5 0.12992096467236885	0.38527611054667316	0.6455926394545357	0.8902374935802315
2024	17170	3 0	0.4871846821231072	0.9780851196377282	0.990900437514621

2024	17170	4	0.2805068684838402	0.696262979178376	0.9066565482091568	0.9909004375146209
2024	17170	5	0.13115621913319087	0.4270530224684193	0.6807366347892434	0.8848398314540149
2024	17236	4	0.125	0.625	1	1
2024	17238	4	0	0.5	1	1
2024	17253	5	0	0.5	1	1
2024	17255	4	0	0.5	1	1
2024	17284	7	0.019881037820785874	0.5198810378207859	1	1
2024	17288	7	0	0.5	1	1
2024	17288	8	0.023556953499102307	0.5235569534991023	1	1
2024	17357	5	0	0.5	1	1
2024	17385	7	0	0.5	1	1
2024	17391	8	0.034953617559700834	0.5349536175597008	1	1
2024	17459	8	0	0.5	1	1
2024	17459	9	0.0013586956521738913	0.5013586956521738	1	1
2024	17574	5	0	0.5	1	1
2024	17578	9	0	0.5	1	1
2024	17586	6	0.09483580196789776	0.5948358019678978	1	1
2024	17586	7	4.969873053420892E-4	0.5004969873053421	1	1
2024	17588	5	0	0.5	1	1
2024	17588	6	0	0.5	1	1
2024	17590	6	0	0.5	1	1
2024	17590	7	0	0.5	1	1
2024	17591	5	0	0.5	1	1
2024	17591	7	0.001991911937789026	0.501991911937789	1	1
2024	17592	5	0	0.5	1	1
2024	17592	6	5.127637970370191E-4	0.500512763797037	1	1
2024	17594	5	0	0.49993526642997904	0.9998202973222792	0.9998850308923002
2024	17594	6	0.001024515478458221	0.5009597819084373	0.9998202973222792	0.9998850308923002
2024	17596	6	0.026315789473684237	0.5263157894736843	1	1
2024	17599	7	0	0.5	1	1
2024	17600	6	0.008548350262230497	0.5085483502622306	1	1
2024	17600	7	0.002259322608350045	0.50225932260835	1	1
2024	17601	4	0	0.5	1	1
2024	17677	5	0.015362193526966328	0.5153621935269663	1	1
2024	17678	4	0	0.5	1	1
2024	17763	4	0	0.5	1	1
2024	17766	6	0	0.5	1	1
2024	17772	5	0	0.5	1	1
2024	17772	6	0	0.5	1	1
2024	17772	7	0	0.5	1	1
2024	17784	7	0	0.5	1	1
2024	17784	8	0.014748540936599552	0.5147485409365995	1	1
2024	17786	7	0.038518332493118757	0.5385183324931188	1	1
2024	17786	8	0.0578580314735363	0.5578580314735363	1	1
2024	17791	8	0.006414731211633662	0.49695967371564614	0.9844587466042116	0.9939138041001992
2024	17817	4	0.07142857142857145	0.5714285714285714	1	1
2024	17818	4	0	0.5	1	1
2024	17819	4	0	0.5	1	1
2024	17976	4	0	0.5	1	1
2024	17978	4	0	0.5	1	1
2024	18104	3	0.09425821228210429	0.5942582122821043	1	1
2024	18132	3	0.02243610169353244	0.5224361016935324	1	1
2024	18159	5	0	0.5	1	1
2024	18170	5	0	0.5	1	1
2024	18205	4	0	0.5	1	1
2024	18206	4	0	0.5	1	1
2024	18211	6	0.05316624428944389	0.5531662442894438	1	1
2024	18212	5	0.0649470263928052	0.5649470263928051	1	1
2024	18213	4	0.09037212996802402	0.5889347670552509	0.9953667882769919	0.996804151189765
2024	18214	4	0	0.5	1	1
2024	18222	4	0	0.5	1	1
2024	18226	4	4.7061355285166195E-4	0.5004706135528516	1	1
2024	18226	5	0.04592515900739713	0.5459251590073971	1	1
2024	18227	3	0.015259600556731368	0.5152596005567314	1	1
2024	18227	4	0	0.5	1	1
2024	18228	3	0.087936147032528	0.587936147032528	1	1
2024	18228	4	0.02737110690002703	0.5273711069000271	1	1
2024	18282	4	0	0.5	1	1
2024	18352	6	0	0.5	1	1
2024	18352	7	0.017570235479508478	0.5175702354795084	1	1
2024	18354	6	0	0.5	1	1
2024	18354	7	0	0.5	1	1
2024	18356	6	0	0.5	1	1
2024	18357	7	0	0.5	1	1
2024	18360	6	0	0.5	1	1
2024	18360	7	0.015151515151515138	0.5151515151515151	1	1
2024	18408	4	0	0.5	1	1
2024	18408	5	0	0.5	1	1
2024	18408	6	0.0044023435140796985	0.5044023435140796	1	1
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2024	18426	9	0	0.5	1	1

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2024	18496	2 0	0.5	1	1
2024	18496	3 0	0.5	1	1
2024	18496	4 0	0.5	1	1
2024	18497	9 0.07863532288993225	0.5786353228899322	1	1
2024	18694	5 0.16666666666666669	0.28455284552845533	0.4390243902439025	0.8211382113821138
2024	18715	6 0	0.375	0.8125	0.9375
2024	18741	6 0.0046643239509488454	0.5046643239509488	1	1
2024	18741	7 0.03143263760450837	0.5314326376045084	1	1
2024	18750	8 0.11010809877721661	0.6062449616359344	0.9928256029249417	0.996688740066224
2024	18862	5 0.12401286411423607	0.6136583482117239	0.9829397257675512	0.9932942416700633
2024	18862	6 0	0.4896454840974878	0.9829397257675512	0.9932942416700633
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2024	19046	4 0	0.5	1	1
2024	19054	4 0	0.5	1	1
2024	19055	4 0	0.5	1	1
2024	19075	3 0.1312805395320747	0.6312805395320746	1	1
2024	19103	2 0	0.5	1	1
2024	19103	3 0.03340181141750809	0.5334018114175081	1	1
2024	19111	2 0	0.5	1	1
2024	19111	3 0.023303412425574876	0.5233034124255749	1	1
2024	19115	3 0.002539397559218559	0.501304954161343	0.9982458791775156	0.9994803225753912
2024	19131	3 0	0.5	1	1
2024	19140	3 0	0.5	1	1
2024	19149	3 0.015673184664277306	0.5156731846642773	1	1
2024	19157	3 0.0412731781412396	0.5412731781412397	1	1
2024	19207	3 0	0.5	1	1
2024	19425	4 0	0.5	1	1
2024	19428	3 0.028876441348602566	0.525927399708783	0.9954241337980956	0.9983731754379152
2024	19491	4 0.02301205719565841	0.5230120571956585	1	1
2024	19522	4 0	0.5	1	1
2024	19522	5 0.006901631582043044	0.506901631582043	1	1
2024	19629	6 0	0.5	1	1
2024	19636	4 0	0.5	1	1
2024	19747	6 0	0.5	1	1
2024	19808	3 0.008666939499453907	0.5086669394994539	1	1
2024	19851	4 0	0.5	1	1
2024	19851	5 0	0.5	1	1
2024	19873	4 0	0.5	1	1
2024	19892	4 0	0.5	1	1
2024	19894	4 0.02063328041152296	0.520633280411523	1	1
2024	19946	3 0	0.5	1	1
2024	19947	3 0	0.5	1	1
2024	20046	5 0	0.5	1	1
2024	20121	2 0.032925631694247615	0.5329256316942477	1	1
2024	20149	4 0.03090226078218955	0.5309022607821896	1	1
2024	20150	4 0.04268824822262496	0.542688248222625	1	1
2024	20182	3 0	0.5	1	1
2024	20183	3 0	0.5	1	1
2024	20305	4 0	0.5	1	1
2024	20305	5 0	0.5	1	1
2024	20306	4 0	0.5	1	1
2024	20306	5 0	0.5	1	1
2024	20310	3 0	0.5	1	1
2024	20490	5 0	0.5	1	1
2024	20523	5 0	0.5	1	1
2024	20531	6 0.25	0.75	1	1
2024	20533	5 0	0.5	1	1
2024	20555	5 0.060706540454859736	0.5607065404548597	0.9987827099535352	0.9987827099535352
2024	20560	3 0.24091310540762073	0.7408468928733704	0.9999337874657496	1
2024	20560	4 0.004071000144462822	0.5040047876102125	0.9999337874657496	1
2024	20620	2 0	0.5	1	1
2024	20673	4 0.0769996341236508	0.5769996341236507	1	1
2024	20793	2 0	0.5	1	1
2024	20793	3 0	0.5	1	1
2024	20802	4 0.17906881755098814	0.6790688175509881	1	1
2024	20817	3 0.05819843161875726	0.5581984316187573	1	1
2024	20848	2 0	0.5	1	1
2024	20866	3 0	0.5	1	1
2024	20953	5 0.019105826048589403	0.1669774154993255	0.3721072411421747	0.7242356516914386
2024	20965	5 0	0.5	1	1
2024	21031	5 0.09259550370921443	0.5907969425581353	0.9964028776978417	0.9982014388489209
2024	21045	1 0.0020153421873949084	0.502015342187395	1	1
2024	21045	2 0.06451534218739491	0.564515342187395	1	1
2024	21110	2 0	0.5	1	1
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2024	21290	5 0	0.5	1	1
2024	21291	5 0	0.5	1	1
2024	21292	5 0	0.5	1	1
2024	21293	5 0	0.5	1	1
2024	21299	5 0.46666666666666667	0.9666666666666667	1	1

2024	21313	5	0.3868445277157414	0.8868445277157414	1	1
2024	21337	4	0	0.5	1	1
2024	21380	4	0	0.5	1	1
2024	21414	3	0.08428642724702134	0.5842864272470214	1	1
2024	21414	4	0.053991757784489613	0.5539917577844896	1	1
2024	21459	6	0	0.5	1	1
2024	21464	5	0	0.5	1	1
2024	21468	5	0	0.5	1	1
2024	21469	5	0	0.5	1	1
2024	21560	3	0	0.5	1	1
2024	21563	4	0	0.5	1	1
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2024	21644	4	0	0.5	1	1
2024	21673	3	0	0.5	1	1
2024	21684	3	0.02761347809700959	0.5257207778533495	0.9974103797896928	0.9993030800333528
2024	21708	2	0	0.5	1	1
2024	21709	5	0	0.5	1	1
2024	21710	3	0.037383225436579404	0.5373832254365793	1	1
2024	21710	4	0	0.5	1	1
2024	21755	3	0	0.5	1	1
2024	21835	3	0	0.5	1	1
2024	21837	3	0	0.5	1	1
2024	21840	3	0.0011883361252245095	0.5011883361252245	1	1
2024	21840	4	0.03415536909225747	0.5341553690922575	1	1
2024	21842	3	0	0.5	1	1
2024	21842	4	0.017528079558865373	0.5175280795588654	1	1
2024	21853	6	0.004874558354766412	0.4979212634330946	0.9899856790286449	0.9969389739503167
2024	21956	2	0	0.5	1	1
2024	21985	3	0	0.5	1	1
2024	22145	3	0.01204819277108432	0.5120481927710843	1	1
2024	22145	4	0	0.5	1	1
2024	22175	2	0	0.5	1	1
2024	22175	3	0.09219339287714023	0.5921933928771402	1	1
2024	22179	3	0	0.5	1	1
2024	22186	3	0	0.5	1	1
2024	22189	4	0	0.5	1	1
2024	22193	3	0	0.5	1	1
2024	22196	2	0	0.5	1	1
2024	22196	3	0	0.5	1	1
2024	22237	3	0.13029173523461396	0.630291735234614	1	1
2024	22254	2	0.20291605921759903	0.702916059217599	1	1
2024	22257	5	0.0839373509891701	0.5839373509891701	1	1
2024	22297	2	0	0.5	1	1
2024	22311	7	0	0.5	1	1
2024	22316	5	0	0.5	1	1
2024	22316	6	0	0.5	1	1
2024	22749	4	0.015143335513467748	0.5151433355134678	1	1
2024	22749	5	0.16777491446083614	0.6677749144608361	1	1
2024	22749	6	0.08131980610170303	0.5813198061017031	1	1
2024	22750	4	0	0.5	1	1
2024	22750	5	0.08846750847544155	0.5884675084754416	1	1
2024	22750	6	0.02430943307298833	0.5243094330729883	1	1
2024	22751	4	0.025572480789769203	0.5255724807897693	1	1
2024	22751	5	0.11510361894295457	0.6151036189429546	1	1
2024	22751	6	0.015291095508383923	0.5152910955083839	1	1
2024	22757	8	0.008236640070973356	0.24839459813755338	0.59566042732721	0.85550246926063
2024	22760	5	0.013216991859670957	0.11500925310458465	0.24604021505624074	0.644247953811327
2024	22761	4	0	0.5	1	1
2024	22771	3	0.06971381883593897	0.569713818835939	1	1
2024	22799	2	0	0.5	1	1
2024	22801	3	0	0.5	1	1
2024	22885	4	0	0.5	1	1
2024	22891	4	0.03268500534396662	0.5326850053439667	1	1
2024	22891	5	0.12479026850186137	0.6247902685018614	1	1
2024	22891	6	0.03268500534396662	0.5326850053439667	1	1
2024	22892	4	0.06429409965179483	0.5642940996517949	1	1
2024	22892	5	0.06603625993054046	0.5660362599305404	1	1
2024	22892	6	0	0.5	1	1
2024	22899	3	0.033485799913301584	0.5334857999133016	1	1
2024	22906	4	0	0.5	1	1
2024	22907	4	0	0.5	1	1
2024	22994	3	0	0.5	1	1
2024	22994	4	0.013059102729699845	0.5130591027296998	1	1
2024	22994	5	0	0.5	1	1
2024	22994	6	0.1056388530764405	0.6056388530764405	1	1
2024	23013	3	0.054313774915801416	0.3517324914028481	0.704233273948477	0.9068145574614302
2024	23014	3	0.024110910971894328	0.26123283033720274	0.6319930259966366	0.8948711066313283
2024	23015	3	0.03572276853642525	0.3426518955203931	0.6972532312018116	0.8903241042178438
2024	23016	3	0.006245927864856393	0.376182296846295	0.77574567961573	0.9058093106342914
2024	23092	7	0.02315811128373041	0.5231581112837305	1	1
2024	23094	6	0.0308165922951536	0.5301812631300827	0.9993646708349291	1

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2024	23135	7 0	0.5	1	1
2024	23136	7 0	0.5	1	1
2024	23137	7 0	0.5	1	1
2024	23140	7 0	0.5	1	1
2024	23141	7 0	0.5	1	1
2024	23157	7 0	0.5	1	1
2024	23229	5 0	0.5	1	1
2024	23244	3 0	0.5	1	1
2024	23372	3 0	0.5	1	1
2024	23373	2 0	0.5	1	1
2024	23374	4 0	0.5	1	1
2024	23375	4 0.007436789881010375	0.5074367898810104	1	1
2024	23377	3 0.07464631558688972	0.5746463155868897	1	1
2024	23385	5 0.04999999999999999	0.55	1	1
2024	23386	6 0.08594678607571538	0.5859467860757154	1	1
2024	23387	3 0	0.5	1	1
2024	23387	4 0.007575757575757569	0.5075757575757576	1	1
2024	23388	5 0.09999999999999998	0.6	1	1
2024	23389	5 0	0.5	1	1
2024	23406	3 0	0.5	0.9992275801844149	0.9992275801844149
2024	23411	7 0	0.5	1	1
2024	23424	2 0	0.5	1	1
2024	23424	3 0	0.5	1	1
2024	23425	2 0	0.5	1	1
2024	23425	3 0	0.5	1	1
2024	23426	2 0	0.5	1	1
2024	23426	3 0	0.5	1	1
2024	23427	2 0	0.5	1	1
2024	23427	3 0	0.5	1	1
2024	23428	2 0	0.5	1	1
2024	23428	3 0	0.5	1	1
2024	23429	2 0	0.5	1	1
2024	23430	3 0	0.5	1	1
2024	23431	2 0	0.5	1	1
2024	23431	3 0	0.5	1	1
2024	23433	2 0	0.5	1	1
2024	23433	3 0	0.5	1	1
2024	23434	2 0	0.5	1	1
2024	23435	2 0	0.5	1	1
2024	23435	3 0	0.5	1	1
2024	23542	1 0.016587434987120953	0.5165874349871209	1	1
2024	23542	2 0.011582429982115894	0.5115824299821159	1	1
2024	23552	2 0	0.5	1	1
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2024	23694	2 0	0.5	1	1
2024	23743	3 0	0.5	1	1
2024	23743	4 0	0.5	1	1
2024	23755	2 0.0015205174833828883	0.5015205174833829	1	1
2024	23755	3 0.019109367499799912	0.5191093674998	1	1
2024	23758	3 0.01691855828713429	0.5169185582871343	1	1
2024	23758	4 0.04274976033317013	0.5427497603331701	1	1
2024	23759	3 0	0.5	1	1
2024	23759	4 0	0.5	1	1
2024	23764	3 0	0.5	1	1
2024	23766	2 0	0.5	1	1
2024	23766	3 0.05297799999330405	0.552977999993304	1	1
2024	23768	3 0.038461538461538436	0.5384615384615384	1	1
2024	23768	4 0	0.5	1	1
2024	23769	2 0.0035817150995962055	0.5035817150995963	1	1
2024	23769	3 0.05585914781181156	0.5558591478118116	1	1
2024	23920	6 0	0.5	1	1
2024	23921	4 0	0.5	1	1
2024	23923	7 0	0.5	1	1
2024	23925	5 0	0.5	1	1
2024	23927	2 0	0.5	1	1
2024	23929	2 0	0.5	1	1
2024	23930	2 0.03648330800604155	0.5361060783098075	0.9996227703037659	1
2024	23933	2 0	0.5	1	1
2024	23960	3 0	0.5	0.9998968646864687	0.9998968646864687
2024	23960	4 0	0.5	0.9998968646864687	0.9998968646864687
2024	23961	3 0	0.5	1	1
2024	23962	3 0	0.5	1	1
2024	23962	4 0	0.5	1	1
2024	23963	3 0	0.5	1	1
2024	23963	4 0	0.5	1	1
2024	23964	3 0	0.5	1	1
2024	23964	4 0	0.5	1	1
2024	23966	2 0	0.5	0.9998968646864687	0.9998968646864687
2024	23966	3 0	0.5	0.9998968646864687	0.9998968646864687

2024	23992	3	0.0972222222222221	0.597222222222222	1	1
2024	23998	3	0	0.5	1	1
2024	23999	3	0	0.5	1	1
2024	24085	3	0	0.5	1	1
2024	24089	3	0	0.5	1	1
2024	24093	3	0.03468371252097885	0.5346837125209789	1	1
2024	24125	2	0	0.5	1	1
2024	24129	2	0.0357142857142857	0.5357142857142857	1	1
2024	24148	2	0.14924894937738864	0.6492489493773886	1	1
2024	24275	2	0.041405806739879036	0.541405806739879	1	1
2024	24287	2	0	0.5	1	1
2024	24302	2	0	0.5	1	1
2024	24306	2	0.06589682225103943	0.5658968222510394	1	1
2024	24338	2	0.04545454545454547	0.5454545454545454	1	1
2024	24362	2	0.009554248666124476	0.5095542486661244	1	1
2024	24364	2	0	0.5	1	1
2024	24372	2	0	0.5	1	1
2024	24378	2	0.008502780187834624	0.5085027801878346	1	1
2024	24378	3	0	0.5	1	1
2024	24380	2	0.0799407107336979	0.5799407107336979	1	1
2024	24381	2	0	0.5	1	1
2024	24396	2	0	0.5	1	1
2024	24396	3	0	0.5	1	1
2024	24458	2	0.013513513513513487	0.5135135135135135	1	1
2024	24525	6	0.02655614017238206	0.5265561401723821	1	1
2024	24538	2	0	0.5	1	1
2024	24538	3	0	0.5	1	1
2024	24539	3	0	0.5	1	1
2024	24558	3	0	0.5	1	1
2024	24559	3	0	0.5	1	1
2024	24560	3	0	0.5	1	1
2024	24561	3	0	0.5	1	1
2024	24562	3	0	0.5	1	1
2024	24563	3	0.033333333333333326	0.5333333333333333	1	1
2024	24567	4	0	0.5	1	1
2024	24568	4	0	0.5	1	1
2024	24574	6	0	0.5	1	1
2024	24575	5	0	0.5	1	1
2024	24577	5	0	0.5	1	1
2024	24624	1	0	0.5	1	1
2024	24624	2	0	0.5	1	1
2024	24634	2	0	0.5	1	1
2024	24644	2	0	0.5	1	1
2024	24648	2	0	0.5	1	1
2024	24648	3	0.0852429225715261	0.5852429225715261	1	1
2024	24679	7	0	0.5	1	1
2024	24689	2	0	0.5	1	1
2024	24725	2	0.048620299102991704	0.5486202991029917	1	1
2024	24725	3	0.055216877128141106	0.5552168771281412	1	1
2024	24733	2	0.06638388796188704	0.566383887961887	1	1
2024	24733	3	0.10127005042226006	0.6012700504222601	1	1
2024	24753	2	0	0.5	1	1
2024	24821	2	0	0.5	1	1
2024	24821	3	0	0.5	1	1
2024	24828	2	0.03864041095968157	0.5330356119007627	0.9943952009410811	1
2024	24837	2	0	0.5	1	1
2024	24895	4	0.04313319530710835	0.52491572477283	0.9693601692172744	0.9875776397515529
2024	24996	2	0	0.5	1	1
2024	24996	3	0	0.5	1	1
2024	24999	2	0.20629470643595882	0.7062947064359588	1	1
2024	24999	3	0	0.5	1	1
2024	24999	4	0	0.5	1	1
2024	25003	5	0.21212580323175007	0.7121258032317501	1	1
2024	25043	5	0	0.5	1	1
2024	25045	4	0	0.5	1	1
2024	25045	5	0	0.5	1	1
2024	25078	3	0	0.5	1	1
2024	25192	3	0.024221296527048297	0.5242212965270483	1	1
2024	25193	3	0	0.5	1	1
2024	25352	3	0	0.5	1	1
2024	25399	4	0	0.5	1	1
2024	25424	3	0	0.5	1	1
2024	25424	4	0.0038007468749245432	0.5038007468749246	1	1
2024	25424	5	0.003940802897333506	0.5039408028973336	1	1
2024	25435	2	0	0.5	1	1
2024	25435	3	0	0.5	1	1
2024	25437	2	0	0.5	1	1
2024	25437	3	0	0.5	1	1
2024	25438	3	0	0.5	1	1
2024	25438	4	0	0.5	1	1
2024	25443	2	0	0.5	1	1

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2024	25470	6	0	0.5	1	1
2024	25473	6	0	0.5	1	1
2024	25478	5	0	0.5	1	1
2024	25504	3	0	0.5	1	1
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2024	25510	4	0	0.5	1	1
2024	25510	5	0	0.5	1	1
2024	25537	3	0	0.5	1	1
2024	25557	3	0.08775331716147383	0.5877533171614738	1	1
2024	25559	3	0.07648508127472675	0.5764850812747268	1	1
2024	25562	3	0.048520426264420435	0.5485204262644204	1	1
2024	25572	3	0.036601767358311	0.536601767358311	1	1
2024	25671	2	0	0.5	1	1
2024	25706	2	0	0.5	1	1
2024	25782	4	0.5	1	1	1
2024	25787	4	0	0.5	1	1
2024	25788	4	0	0.5	1	1
2024	25790	2	0.0024420187820484718	0.5024420187820484	1	1
2024	25790	3	0.02244201878204849	0.5224420187820484	1	1
2024	25792	2	0.013068025332076683	0.5130680253320767	1	1
2024	25792	3	0	0.5	1	1
2024	25794	2	0	0.5	1	1
2024	25798	3	0	0.5	1	1
2024	25805	4	0.018621996314012623	0.5186219963140126	1	1
2024	25894	3	0	0.5	1	1
2024	25942	3	0	0.5	1	1
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2024	25981	4	0.5	1	1	1
2024	25987	5	0	0.5	1	1
2024	26117	3	0	0.5	1	1
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2024	26119	3	0	0.4918144703181738	0.9749168029539828	0.9831023326358089
2024	26119	5	0.03838003465958334	0.4392854140686662	0.8385531665903463	0.9376477871812634
2024	26119	6	0.0935966301446352	0.34044465750978886	0.5453866016117008	0.7985385742465472
2024	26120	3	0.01170635534463782	0.4859440421949957	0.9460243327873848	0.9717866459370269
2024	26120	5	0.06433793429200624	0.09120720008973254	0.18286643805054276	0.6559971722528164
2024	26120	6	0.16476757983443374	0.3022705728072406	0.37459576135881345	0.7370927683860066
2024	26121	6	0.17029131279366816	0.4756343013041243	0.6197969015170458	0.8144539130065896
2024	26122	3	0	0.5	0.9990246669694154	0.9990246669694155
2024	26122	6	0.03692075813514217	0.3116572848281469	0.6070945269957535	0.8323580003027488
2024	26123	3	0.014239161624719221	0.5142391616247193	0.9920191026742379	0.992019102674238
2024	26123	5	0.08566773305329067	0.47888767862821524	0.8852390482491624	0.9920191026742379
2024	26123	6	0.17918761523296667	0.44759165506415044	0.5954746888971743	0.8270706490659905
2024	26148	6	0	0.5	1	1
2024	26149	6	0	0.5	1	1
2024	26150	6	0	0.5	1	1
2024	26183	3	0	0.5	1	1
2024	26183	4	0	0.5	1	1
2024	26198	2	0	0.5	1	1
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2024	26308	6	0.004461223820029447	0.5044612238200294	1	1
2024	26461	4	0.042976181441544026	0.542976181441544	1	1
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2024	26470	3	0	0.5	1	1
2024	26472	2	0	0.5	1	1
2024	26501	2	0	0.5	1	1
2024	26540	4	0.3839776413090191	0.7654566572574345	0.8689109336962799	0.9874319177478645
2024	26540	6	0.059095012201037855	0.3011374084311434	0.6097560041188151	0.8677136078887095
2024	26707	4	0.028091546533958178	0.5280915465339582	1	1
2024	26707	5	0.09947186958829007	0.5994718695882901	1	1
2024	26708	4	0.017183766857434835	0.5171837668574348	1	1
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2024	26802	4 0	0.5	1	1
2024	26804	3 0	0.5	1	1
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2024	26971	2 0.00552998534211363	0.5055299853421136	1	1
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2024	26981	3 0	0.5	1	1
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2024	27107	4 0.23690857648723518	0.7369085764872352	1	1
2024	27110	4 0.07692307692307693	0.5769230769230769	1	1
2024	27118	5 0.1546496015835624	0.6546496015835623	1	1
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2024	27124	6 0	0.5	1	1
2024	27141	1 0.16066723048002235	0.65069954057314	0.9840328739064732	0.9940005638133557
2024	27159	3 0	0.5	1	1
2024	27164	2 0.050209770560165234	0.5502097705601652	1	1
2024	27171	2 0	0.5	1	1
2024	27176	2 0	0.5	1	1
2024	27208	3 0.02530421157733792	0.5235597071917168	0.996906729157442	0.9986512335430631
2024	27210	2 0.06261008561800613	0.5626100856180061	1	1
2024	27229	5 0.03318736828406854	0.5331873682840685	1	1
2024	27229	6 0.0032202090065643896	0.5032202090065644	1	1
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2024	27357	2 0	0.5	1	1
2024	27357	3 0	0.5	1	1
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2024	27360	3 0	0.5	1	1
2024	27360	4 0	0.5	1	1
2024	27360	5 0	0.5	1	1
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2024	27361	3 2.2262029141045803E-4	0.5000013052434287	0.9996069623046255	0.9998282773526074
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2024	27365	2 0	0.5	1	1
2024	27365	3 0	0.5	1	1
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2024	27457	4 0.013508551519320844	0.5135085515193208	1	1
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2024	27461	3 0.014727619985960505	0.5147276199859605	1	1
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2024	27519	2 0	0.5	1	1
2024	27548	3 0.048641512838909995	0.2136644129290146	0.47217848466803164	0.807155584577927
2024	27552	3 0	0.1962250508471856	0.5756083350623912	0.8793832842152056
2024	27563	2 0.0020103096625051498	0.5020103096625051	1	1
2024	27563	3 0.04201030966250513	0.5420103096625051	1	1
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2024	27616	1 0	0.5	1	1
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2024	27714	2 0.2813591004643047	0.7813591004643047	1	1
2024	27837	2 0.023100931461375374	0.09417651475579336	0.2205990447754273	0.6495234614810093
2024	27837	3 0.10346709307753699	0.2564239895032681	0.4171268225532051	0.7641699261274739
2024	27840	2 0.026008834284171112	0.2400822577373934	0.5073322057366367	0.7932587822834145
2024	27840	3 0.057622350834166836	0.23143996234373687	0.46029219190896414	0.7864745803993941
2024	27843	2 0.033332576437287764	0.23233093573333652	0.45210252788431904	0.7531041685882703
2024	27843	3 0.11077400293531808	0.31126981655900987	0.4990419616162056	0.7985461479925139
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2024	27849	2 0.02850685868509517	0.22451742296970778	0.4653345148087218	0.7693239505241092
2024	27849	3 0.0903854562779785	0.2648104632627481	0.47220264667685363	0.797777639692084
2024	27852	2 0.004962012644139258	0.22865808509225904	0.5594919519126963	0.8357958794645765
2024	27852	3 0.10958036726249393	0.37849473492890895	0.6981910906118349	0.92927672294542

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2024	28007	4	0.1996269273867472	0.5891675081767861	0.8861560641207903	0.9966154833307515
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2024	28017	2	0	0.5	1	1
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2024	28062	3	0.027805430224813688	0.2468104963804879	0.606236986130954	0.8872319199752798
2024	28062	4	0	0.20331366373658305	0.6301009939766553	0.9267873302400722
2024	28068	3	0.09393334813392312	0.4046610222635179	0.7359566868925299	0.9252290127629351
2024	28068	4	0.04805122479278334	0.4742355733954461	0.9261843486026627	1
2024	28069	3	0.05719658105701397	0.34122353027240493	0.7162823279837245	0.9322553787683335
2024	28069	4	0.06463705724749019	0.20134257789145255	0.4945561375075339	0.8578506168635716
2024	28070	3	0.09777730809258867	0.43030200637305716	0.757553018620648	0.9250283203401796
2024	28070	4	0	0.056501306467602985	0.3924945390884843	0.8359932326208813
2024	28098	3	0	0.4734782669795995	0.9506455220349063	0.9771672550553067
2024	28098	4	0.023564375270886173	0.2735987361751968	0.6042049704135868	0.8541706095092761
2024	28099	3	0.06929599000360315	0.3509962843939673	0.6743246246619092	0.892624330271545
2024	28100	4	0.07248655873279886	0.3750806521804393	0.6943896422488675	0.891795548801227
2024	28101	4	0.143416977602366	0.4349425627764248	0.6789625841030735	0.8874369989290147
2024	28103	3	0.14147834238040535	0.4362032081778237	0.676255142034065	0.8815302762366467
2024	28104	3	0.052318594841424315	0.3158838580355983	0.6465360897501107	0.8829708265559366
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2024	28125	3	0	0.5	1	1
2024	28126	3	0.00956865545815927	0.5095686554581593	1	1
2024	28128	3	0	0.5	1	1
2024	28129	3	0	0.5	1	1
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2024	28501	2	0	0.5	1	1
2024	28501	3	0	0.5	1	1
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2024	28502	2	0	0.5	1	1
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2024	28946	2 0.0024324912655925846	0.5024324912655926	1	1
2024	28971	2 0.014906848534013917	0.5149068485340139	1	1
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2024	29241	1 0.07142857142857145	0.5714285714285714	1	1
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2024	29322	3	0	0.5	1	1
2024	29323	3	0	0.5	1	1
2024	29324	3	0	0.5	1	1
2024	29325	3	0	0.5	1	1
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2024	29338	2	0.020491788526627308	0.5204917885266274	1	1
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2024	29465	1	0.01132865390083554	0.5113286539008355	1	1
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2024	29466	1	0.005251421083511232	0.5052514210835113	1	1
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2024	29470	2	0	0.5	1	1
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2024	29471	1	0	0.5	1	1
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2024	29477	2	0	0.5	1	1
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2024	29576	1	0.006173552343222755	0.5061735523432227	1	1
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2024	29584	4	0	0.5	1	1
2024	29586	3	0	0.5	1	1
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2024	29590	1	0.018518518518518545	0.5185185185185186	1	1
2024	29597	1	0	0.5	1	1
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2024	29653	1	0	0.5	1	1
2024	29677	1	0	0.5	1	1
2024	29677	2	0.0498342367614209	0.5498342367614208	1	1
2024	29678	1	0	0.5	1	1

2024	29678	2	0.07968740269611735	0.5796874026961174	1	1
2024	29679	1	0.094877428916813	0.5948774289168131	1	1
2024	29679	2	0.12095953511940111	0.620959535119401	1	1
2024	29680	1	0	0.5	1	1
2024	29680	2	0.04872172720502915	0.5487217272050291	1	1
2024	29681	1	0	0.5	1	1
2024	29681	2	0.09053493493577447	0.5905349349357745	1	1
2024	29682	1	0	0.5	1	1
2024	29682	2	0.08290920548040337	0.5829092054804034	1	1
2024	29683	1	0	0.49756507990115306	0.9963604110367571	0.9987953311356039
2024	29683	2	0.011199692787355553	0.5087647726885086	0.9963604110367571	0.9987953311356039
2024	29684	1	0.0372514799981577	0.5372514799981577	1	1
2024	29684	2	0.11001743744496617	0.6100174374449662	1	1
2024	29704	2	0.025142751349429893	0.1868404675950856	0.6046540653589989	0.9429563491133433
2024	29705	2	0.04264658455873771	0.23533286543042664	0.6231624108393488	0.9304761299676598
2024	29706	2	0.01659179210962275	0.13618817372808012	0.4427097722419155	0.8231133906234581
2024	29707	2	0.26402645516019874	0.6580058953685347	0.8279730550801314	0.9339936148717956
2024	29709	2	0	0.5	1	1
2024	29749	1	0	0.5	1	1
2024	29749	2	0	0.5	1	1
2024	29753	1	0	0.5	1	1
2024	29753	2	0	0.5	1	1
2024	29785	1	0	0.5	1	1
2024	29785	2	0.12139426042919949	0.6213942604291995	1	1
2024	29786	1	0	0.5	1	1
2024	29786	2	0.045712055907038585	0.5457120559070385	1	1
2024	29787	1	0.14596118638145655	0.6459611863814565	1	1
2024	29787	2	0.11703084759196286	0.6170308475919628	1	1
2024	29788	1	0.0645314603417183	0.5645314603417183	1	1
2024	29788	2	0.112223768034026	0.612223768034026	1	1
2024	29789	1	0.1476456601034411	0.647645660103441	1	1
2024	29789	2	0.06313583031059244	0.5631358303105924	1	1
2024	29790	2	0.017534077206907916	0.5175340772069079	1	1
2024	29791	1	0	0.5	1	1
2024	29791	2	0.04737928686653864	0.5473792868665386	1	1
2024	29792	1	0.07651555405733101	0.576515554057331	1	1
2024	29792	2	0.17477035335925073	0.6747703533592507	1	1
2024	29793	1	0.006962813564028225	0.5069628135640283	1	1
2024	29793	2	0.02307281002336964	0.5230728100233697	1	1
2024	29794	1	0.04344059241836068	0.5434405924183607	1	1
2024	29794	2	0.05639256219709787	0.5563925621970979	1	1
2024	29795	1	0	0.4995301681404891	0.9995301681404891	1
2024	29795	2	0.05525306235929339	0.5547832304997825	0.9995301681404891	1
2024	29796	1	2.191234964088462E-6	0.5000021912349641	1	1
2024	29796	2	0.031647760855217255	0.5316477608552173	1	1
2024	29797	1	0	0.5	1	1
2024	29797	2	0	0.5	1	1
2024	29798	1	0	0.5	1	1
2024	29798	2	0.0357142857142857	0.5357142857142857	1	1
2024	29801	2	0	0.5	1	1
2024	29805	1	0	0.5	1	1
2024	29805	2	0.04545454545454547	0.5454545454545454	1	1
2024	29810	1	0.006993006993006978	0.506993006993007	1	1
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2024	29813	1	0	0.5	1	1
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2024	29823	2	0	0.5	1	1
2024	29827	1	0	0.5	1	1
2024	29827	2	0.1637931003951128	0.6637931003951127	1	1
2024	29829	1	0	0.5	1	1
2024	29829	2	0.009615384615384637	0.5096153846153846	1	1
2024	29830	2	0	0.5	1	1
2024	29832	1	0	0.5	1	1
2024	29834	2	0	0.5	1	1
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2024	29839	2	0	0.5	1	1
2024	29841	2	0	0.5	1	1
2024	29843	2	0	0.5	1	1
2024	29844	2	0	0.5	1	1
2024	29845	2	0	0.5	1	1
2024	29847	2	0	0.5	1	1
2024	29848	2	0	0.5	1	1
2024	29849	2	0	0.4855895619823052	0.9812569924526471	0.9956674304703419
2024	29850	2	0	0.5	1	1
2024	29851	2	0	0.5	1	1
2024	29863	1	0.01228209814269371	0.5122820981426937	1	1
2024	29863	2	0.01228209814269371	0.5122820981426937	1	1
2024	29863	3	0.204589790450386	0.7045897904503859	1	1
2024	29864	1	0	0.5	1	1
2024	29864	2	0.007048454012145378	0.5070484540121454	1	1
2024	29865	1	0.024869773004302043	0.524869773004302	1	1

2024	29865	2	0.0645523126868417	0.5645523126868417	1	1
2024	29866	1	0.03167643235651013	0.5316764323565102	1	1
2024	29866	2	0.07988974386769399	0.579889743867694	1	1
2024	29867	1	0	0.5	1	1
2024	29867	2	0.07800706802323615	0.5780070680232361	1	1
2024	29867	3	0.05560401397461251	0.5556040139746126	1	1
2024	29868	1	0.02834846575529365	0.5283484657552937	1	1
2024	29868	2	0.06793790857054294	0.5679379085705429	1	1
2024	29869	1	0	0.5	1	1
2024	29869	2	0.046970416305939844	0.5469704163059399	1	1
2024	29870	1	0.009954323118040953	0.5068191924756027	0.9953018255709656	0.9984369562134038
2024	29870	2	0	0.49686486935756174	0.9953018255709656	0.9984369562134038
2024	29871	1	0.03909919851487198	0.539099198514872	1	1
2024	29871	2	0.023179387194117274	0.5231793871941173	1	1
2024	29872	1	0	0.5	1	1
2024	29876	1	0	0.5	1	1
2024	29877	1	0	0.5	1	1
2024	29879	1	0	0.5	1	1
2024	29882	4	0	0.5	1	1
2024	29928	2	0	0.5	1	1
2024	30015	1	0	0.5	1	1
2024	30020	2	0	0.5	1	1
2024	30044	2	0	0.5	1	1
2024	30046	1	0.07142857142857145	0.5714285714285714	1	1
2024	30047	2	0	0.5	1	1
2024	30052	1	0	0.5	1	1
2024	30067	3	0	0.5	1	1
2024	30072	2	0	0.5	1	1
2024	30073	2	0	0.5	1	1
2024	30116	1	0	0.5	1	1
2024	30122	2	0	0.4847247530773251	0.9801313856851427	0.9954066326078175
2024	30123	2	1.8600274266972194E-4	0.5001860027426697	1	1
2024	30124	2	0	0.5	1	1
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2024	30182	1	0	0.5	1	1
2024	30182	2	0	0.5	1	1
2024	30244	3	0	0.08333333333333331	0.5	0.9166666666666667
2024	30245	2	0.03914401402487161	0.30448231856687613	0.6729203478405624	0.9075820432985579
2024	30246	2	0	0.5	1	1
2024	30247	3	0.5	1	1	1
2024	30257	1	0	0.5	1	1
2024	30263	2	0	0.5	1	1
2024	30264	1	0	0.4995717100593429	0.9995229813003014	0.9999512712409585
2024	30264	2	0.005872028283528452	0.5054437383428714	0.9995229813003014	0.9999512712409585
2024	30265	1	0	0.5	1	1
2024	30265	2	0.003243207066616405	0.5032432070666164	1	1
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2024	30277	3	0	0.5	1	1
2024	30278	3	0	0.5	1	1
2024	30279	2	0	0.5	1	1
2024	30280	1	0	0.5	1	1
2024	30281	1	0	0.5	1	1
2024	30282	2	0	0.5	1	1
2024	30283	2	0	0.5	1	1
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2024	30435	1	0	0.5	1	1
2024	30436	1	0	0.5	1	1
2024	30437	1	0.04731608657115721	0.5473160865711573	1	1
2024	30438	1	0	0.5	1	1
2024	30441	2	0	0.5	1	1
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2024	30447	3	0	0.5	1	1
2024	30448	1	0.011036150088467589	0.5110361500884676	1	1
2024	30477	1	0.022456011387111563	0.5224560113871115	1	1
2024	30479	1	0.011589076093865724	0.5115890760938657	1	1
2024	30480	1	0.07213494121756975	0.5721349412175698	0.999932327355803	0.9999323273558028
2024	30507	2	0.2249328443696077	0.7249328443696077	1	1
2024	30507	3	0.15056738780170392	0.650567387801704	1	1
2024	30508	1	0.2197233943770177	0.7197233943770177	1	1
2024	30508	2	0.20154157619519952	0.7015415761951995	1	1
2024	30508	3	0.1447233943770177	0.6447233943770176	1	1
2024	30509	2	0.21600646260063538	0.7160064626006354	1	1
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2024	30510	2	0.12995237818745498	0.629952378187455	1	1
2024	30510	3	0.18352380675888352	0.6835238067588836	1	1
2024	30511	1	0.00683223170494085	0.5068322317049408	1	1
2024	30511	2	0.19913992401263314	0.6991399240126331	1	1
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2024	30515	1	0.08968737250890513	0.5896873725089051	1	1
2024	30516	1	0.022196152962096927	0.5221961529620969	1	1
2024	30517	1	0.0596149398320962	0.5596149398320962	1	1

2024	30517	2	0.021153401370557767	0.5211534013705578	1	1
2024	30518	1	0.04522292395800409	0.5452229239580041	1	1
2024	30519	1	0.015455435777081084	0.5154554357770811	1	1
2024	30529	1	0	0.5	1	1
2024	30530	1	0	0.5	1	1
2024	30532	1	0	0.5	1	1
2024	30533	1	0	0.5	1	1
2024	30534	1	0	0.5	1	1
2024	30536	1	0	0.5	1	1
2024	30540	2	0.04244470821411506	0.5424447082141151	1	1
2024	30541	3	0.01592904922908095	0.5159290492290809	1	1
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2024	30561	1	0.023975364244110287	0.5239753642441103	1	1
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2024	30565	1	0	0.5	1	1
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2024	30567	1	0.02176933375847212	0.5217693337584721	1	1
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2024	30577	2	0.5	1	1	1
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2024	30605	1	0	0.5	1	1
2024	30616	1	0	0.5	1	1
2024	30618	2	0	0.5	1	1
2024	30619	1	0	0.5	1	1
2024	30620	2	0	0.5	1	1
2024	30622	2	0	0.5	1	1
2024	30625	2	0	0.5	1	1
2024	30626	2	0	0.5	1	1
2024	30634	1	0	0.5	1	1
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2024	30818	2	0	0.5	1	1
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2024	30843	2	0	0.5	1	1
2024	30848	2	0	0.5	1	1
2024	30851	2	0	0.5	1	1
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2024	30906	1 0.07350866380179272	0.5735086638017928	1	1
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2024	30911	1 0.0662858303713032	0.5662858303713032	1	1
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2024	30916	2 0.0492747789650233	0.5492747789650233	1	1
2024	30932	1 0.03640520737474545	0.5364052073747454	1	1
2024	30933	1 0.10776801574992406	0.6077680157499241	1	1
2024	30933	2 0.0937654734443707	0.5937654734443707	1	1
2024	30935	1 0.15790984470348712	0.6579098447034871	1	1
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2024	30936	1 0.10112785687394049	0.6011278568739404	1	1
2024	30943	1 0	0.5	1	1
2024	30944	1 0	0.5	1	1
2024	30982	1 0.05239667700277634	0.18451776668486153	0.41407689098038736	0.7819558012983021
2024	30982	2 0.0644548890609884	0.4269086190757139	0.8346798015832979	0.9722260715685724
2024	30986	1 0.13890503266784293	0.6389050326678429	1	1
2024	30986	2 0.005571699334509572	0.5055716993345096	1	1
2024	30987	1 0.013035890150562335	0.5130358901505623	1	1
2024	30987	2 0	0.5	1	1
2024	30989	1 0.11580815652687898	0.6158081565268789	1	1
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2024	30996	1 0.14450948842512573	0.640470218951968	0.9932678842114038	0.9973071536845616
2024	30997	1 0.06904298545433685	0.3814328964673407	0.6970480885981203	0.8846581775851164
2024	30997	2 0	0.3762461770223799	0.8147925185435071	0.9385463415211273
2024	31003	1 0.07494375643689155	0.5749437564368916	1	1
2024	31004	1 0.01626705156801589	0.2897107349209024	0.6035292719762254	0.8300855886233389
2024	31004	2 0.01735654573144002	0.3199441979559218	0.5966421124431515	0.7940544602186697
2024	31007	1 0	0.5	1	1
2024	31008	1 0.11312249783840372	0.6131224978384038	1	1
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2024	31016	2 0	0.47628620992574255	0.9657388248299685	0.989452614904226
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2024	31021	2 0	0.5	0.9986864718386048	0.9986864718386049
2024	31027	1 0.08140297154731241	0.38729170793774986	0.7353725970496015	0.9294838606591641
2024	31027	2 0	0.24559687771148198	0.49727735895436337	0.7516804812428814
2024	31029	1 0.07142857142857145	0.5714285714285714	1	1
2024	31033	1 0.197747512791431	0.697747512791431	1	1
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2024	31044	1 0.09693558723570833	0.5969355872357083	1	1
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2024	31063	1 0	0.5	1	1
2024	31070	2 6.756557460477763E-4	0.5006756557460478	1	1
2024	31070	3 0.07735789065350324	0.5773578906535033	1	1
2024	31071	2 0	0.5	1	1
2024	31071	3 0.05326533581179804	0.553265335811798	1	1
2024	31074	1 0	0.5	1	1
2024	31074	2 0	0.5	1	1
2024	31076	1 0	0.5	0.9994402993990475	0.9994402993990475
2024	31076	2 0.038609685811068606	0.5386096858110686	0.9994402993990475	0.9994402993990475
2024	31077	1 0	0.5	1	1
2024	31077	2 0	0.5	1	1
2024	31079	1 0	0.49655989544073176	0.9939798170212806	0.9974199215805488
2024	31079	2 0.04415261614906002	0.5407125115897917	0.9939798170212806	0.9974199215805488
2024	31080	1 0.05996114247223966	0.5599611424722397	1	1
2024	31080	2 0	0.5	1	1
2024	31081	1 0	0.4969710247287655	0.9938312457083619	0.9968602209795964
2024	31081	2 0.09706092827297941	0.5940319530017448	0.9938312457083619	0.9968602209795964
2024	31117	2 0	0	0	0.5
2024	31120	2 0	0	0.5	1
2024	31122	2 0	0.5	1	1
2024	31128	1 0	0.5	1	1
2024	31138	1 0	0.5	1	1
2024	31139	1 0	0.5	1	1
2024	31140	1 8.806056293753084E-5	0.5000880605629375	1	1
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2024	31161	2 0	0.5	1	1
2024	31161	3 0	0.5	1	1
2024	31183	3 0	0.5	1	1
2024	31184	3 0	0.5	1	1
2024	31186	3 0	0.5	1	1
2024	31221	1 0	0.5	1	1
2024	31223	1 0	0.5	1	1
2024	31224	1 0	0.5	1	1
2024	31288	1 0	0.5	1	1
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2024	31293	1 0	0.5	1	1
2024	31384	1 0.19310640444051191	0.693106404440512	0.9990727360832371	0.999072736083237
2024	31385	1 0	0.5	1	1
2024	31386	1 0.16333554425978447	0.6633355442597845	0.999222373422676	0.9992223734226761
2024	31387	1 0.055427376930740346	0.5526827182406264	0.9942821512485199	0.9970268099386339
2024	31388	1 0.06117580782088261	0.5611758078208826	1	1
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2024	31438	1 0	0.5	1	1
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2024	31440	1 0	0.5	1	1
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2024	31446	2 0	0.5	1	1
2024	31493	1 0	0.5	1	1
2024	31500	2 0	0.5	1	1
2024	31501	2 0	0.5	1	1
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2024	31503	2 0	0.5	1	1
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2024	31508	1 0.023267019490131158	0.5232670194901312	1	1
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2024	31616	2 0	0.5	1	1
2024	31616	3 0	0.5	1	1
2024	31617	2 0.07142857142857145	0.5714285714285714	1	1
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2024	31618	3 0	0.5	1	1
2024	31619	2 0	0.5	1	1
2024	31621	2 0	0.5	1	1
2024	31622	2 0.06276898951574938	0.5627689895157494	1	1
2024	31622	3 0.007213433960193805	0.5072134339601938	1	1
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2024	31624	2 0	0.5	1	1
2024	31624	3 0	0.5	1	1
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2024	31630	2 0	0.5	1	1
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2024	31631	1 0	0.5	1	1
2024	31631	2 0	0.5	1	1
2024	31632	2 0	0.5	1	1
2024	31632	3 0	0.5	1	1
2024	31633	2 0.125	0.625	1	1
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2024	31638	2 0	0.5	1	1
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2024	31679	1 0.016050734492258523	0.5160507344922585	1	1
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2024	31832	1 0	0.5	1	1
2024	31833	1 0	0.5	1	1
2024	31942	1 0	0.5	1	1
2024	31946	1 0	0.5	1	1
2024	31958	2 0	0.5	1	1
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2024	32029	1 0	0.5	1	1
2024	32031	1 0	0.5	1	1
2024	32052	1 0.07749294511696081	0.5774929451169608	1	1
2024	32054	1 0.09122295287969501	0.5912229528796951	1	1
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2024	32118	1 0	0.5	1	1
2024	32158	1 0	0.5	1	1
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2024	32182	1 0.03649467276400847	0.4218243325507178	0.801476680388192	0.9161470206014827
2024	32183	1 0	0.4155370214108939	0.8997907471764147	0.9842537257655208
2024	32184	1 0	0.3879293956790288	0.8211572624062351	0.9332278667272063
2024	32185	1 0.05974524346754628	0.3975525789857982	0.7257046370559691	0.8878973015377172
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2024	32366	1 0.13802960397446373	0.3615660484653624	0.5446317896732262	0.8210953451823275
2024	32367	1 0.07331281083895241	0.2875206528789963	0.562363105615187	0.848155263575143
2024	32368	1 0.038092711705919324	0.23572897225021944	0.4405489211923533	0.7429126606480532
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2024	32370	1 0.1354083944122617	0.4054570256993426	0.6287430075698979	0.858694376282817
2024	32371	1 0.13777635679451605	0.3988859486491249	0.6270905709501366	0.8659809790955278
2024	32372	1 0.09495060351540063	0.4304328690075069	0.750610753484478	0.9151284879923718
2024	32373	1 0.1163745785401436	0.3960386828944731	0.6820683372702404	0.902404232915911
2024	32374	1 0.06719437719892968	0.27841939788459386	0.5464435674235237	0.8352185467378597
2024	32375	1 0.08985910769604599	0.3299806459508133	0.533590371745412	0.7934688334906448
2024	32378	1 0.1494307700944595	0.3420780404326764	0.4529985596599981	0.7603512893217812
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2024	32418	1 0.006659319101093519	0.5066593191010935	1	1
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2024	32472	1 0.025000000000000022	0.525	1	1
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2024	32612	1 0	0.5	1	1

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2024	32844	1	0.08703628524953855	0.5870362852495385	1	1
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2024	32850	1	0.11843589897504792	0.6184358989750479	1	1
2024	32853	1	0.02073847431468251	0.5207384743146826	1	1
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2024	32940	1	0.23125764837550694	0.7312576483755069	1	1
2024	32941	1	0.02437332678051507	0.5243733267805151	1	1
2024	32954	1	0	0.1101506617408467	0.45224685721773233	0.8420961954768856
2024	32955	1	0	0.12449835356541022	0.3521524576311249	0.7276541040657147
2024	32956	1	0.0033057851239669533	0.11946630810574266	0.37002898164144693	0.7538684586596712
2024	32971	1	0.02589531387561539	0.1679077552342742	0.5357411953222097	0.8937287539635509
2024	32972	1	0.024432258484223257	0.13037688189778213	0.47162883361975577	0.8656842102061969
2024	32973	1	0	0.15847457838983214	0.6211864446504269	0.9627118662605949
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2024	33230	1	0.1511116602345841	0.6511116602345841	1	1
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2024	90826	3	0.043937630125036986	0.23668105912392146	0.49647516522554325	0.8037317362266587
2024	90827	3	0.06267397070195474	0.2750252856716748	0.5470371946841237	0.8346858797144037
2024	90828	3	0.06873253260556728	0.3116782226919469	0.6016913819727834	0.8587456918864038
2024	90831	3	0.09228221305915518	0.3079386319802706	0.6298351782711165	0.914178759350001
2024	90832	3	0.15573404326160623	0.4491195944468772	0.6815435508599857	0.8881579996747148
2024	91379	2	0.2233913401726671	0.6160195234593147	0.8780692185933873	0.9854410353067397
2024	91380	2	0.21231904118944456	0.6095850714179548	0.868193462898997	0.9709274326704869
2024	91381	2	0.1664196278381509	0.5695778772191753	0.8850078371260129	0.9818495877449884
2024	91382	1	0	0.47763210396027267	0.9620392039069932	0.9844070999467205
2024	91382	2	0.03694048047193704	0.23648600872057085	0.5455830812861409	0.846037553037507
2024	91383	1	0	0	0.48992140821530256	0.9899214082153025
2024	91383	2	0.06940895129886049	0.2783417251270853	0.5688785524740717	0.8599457786458469
2024	91384	1	0	0.10107893279792007	0.4596792755041317	0.8586003427062116
2024	91384	2	0.03765892763080969	0.23857432381763038	0.5483055679708968	0.8473901717840762
2024	91385	2	0.07510323358629117	0.33016557423655235	0.5963640461413134	0.8413017054910522
2024	91387	2	0.025139001281827222	0.21124123873068495	0.510547584965262	0.8244453475164042
2024	91388	2	0.007899893611021502	0.10747182426229546	0.3475561194001477	0.7479841887488737
2024	91389	1	0.025670841184815385	0.147994782193383	0.4332203147730517	0.8108916777385288
2024	91389	2	0.052849316671719326	0.26967649859095233	0.5609766389279655	0.8441494570087325
2024	91390	2	0.13464722466901774	0.4939926892863834	0.8585637561169852	0.9992182914996196
2024	91391	2	0.17045733679792524	0.5364013006810506	0.8659439638831253	1
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2024	91393	1	0	0.47760055796548007	0.9455987987384314	0.9679982407729514
2024	91393	2	0.029153736395759577	0.14265115785046834	0.32962603392092943	0.7161286124662207
2024	91394	2	0.09709553262700021	0.4090819689974826	0.79342670289108	0.9814402665205975
2024	91395	2	0.10710364744393391	0.4370549389515344	0.7928411665501	0.9628898750424995
2024	91396	2	0.09953660136020909	0.3942537615961428	0.7755075669018255	0.9807904066658919
2024	91397	2	0.05634974645144636	0.2200614903918784	0.4694763406550523	0.8057645967146202
2024	91398	2	0.0641242043713266	0.24674985341714506	0.48978706675095535	0.8071614177051369
2024	91399	2	0.17650547732370686	0.538500418890077	0.831986563825877	0.9699916222595069
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2024	91401	2	0.036070294225222455	0.22998156247028445	0.521360497692552	0.82744922944749
2024	91402	2	0.057209218219144986	0.3273306441735613	0.6489219645283578	0.8788005385739415
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2024	91403	2	0.17560817431338488	0.5558460241906269	0.8802378498772421	1
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2024	91405	2	0.027541561736594666	0.1369078590168405	0.3735027914344806	0.7641364941542348
2024	91406	2	0.19620019760342566	0.5558198652626835	0.8312491651606286	0.9716294975013708
2024	91407	2	0.06749720995160435	0.2660884661419828	0.5393767358187807	0.8407854796284022
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2024	91409	2	0.03683643474145659	0.18968216081417116	0.4465851083683958	0.7937393822956813
2024	91410	2	0.09455243228528365	0.4040822608027693	0.707558574609692	0.8980287460922063
2024	91411	2	0.07687688996945319	0.3327578615943041	0.6271642760413149	0.871283304416464

2024	91412	1 0	0.4924006350403007	0.9835560172425729	0.9911553822022722
2024	91412	2 0.07588828350352295	0.340737115013509	0.6378154186240005	0.8729665871140144
2024	91413	2 0.24041940377851312	0.6555436448948512	0.9138989360022668	0.9987746948859287
2024	91414	2 0.12379438469147835	0.4483036347307049	0.7697056835484134	0.9451964335091869
2024	91415	1 0	0.22544869304510395	0.45048601074698313	0.7250373177018792
2024	91415	2 0.062099057311494066	0.27968476026611977	0.5480732576233295	0.8304875546687038
2024	91416	1 0	0.1366759486877373	0.43941796914979253	0.8027420204620552
2024	91416	2 0.054292829535983356	0.16776381278430746	0.3395449264075157	0.7260739431591916
2024	91417	1 0	0	0	0.5
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2024	91418	2 0.020909492185653245	0.09280247225819893	0.2413548501988827	0.6694618701263371
2024	91419	2 0.08286142486728282	0.23276800528823022	0.39719353276472275	0.7472869523437753
2024	91420	2 0.28622414775832417	0.7633141538440031	0.9770900060856791	1.0000000000000002
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2024	91422	2 0.06626184750585512	0.2320020524132113	0.4131072715222241	0.747367066614868
2024	91423	2 0.2526984321528999	0.6936444423948258	0.9409460102419259	1
2024	91424	1 0	0	0	0.5
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2024	91425	2 0.0848340582933062	0.28055507469861146	0.5097060874571282	0.813985071051823
2024	91426	2 0.12231271507994007	0.458080636983778067	0.8046555300866521	0.9681618753288116
2024	91427	2 0.13132535485322272	0.47516708832185617	0.827515138598608	0.9836734051299746
2024	91428	2 0.08881529647100944	0.33145665517757356	0.619482243406633	0.8768408847000689
2024	91429	2 0.12306718351389206	0.4968928960906781	0.8613318523833915	0.9875061398066055
2024	91430	1 0.0027017332176248465	0.09988058686946327	0.2927036482046516	0.6955247945528131
2024	91430	2 0.09754783200073153	0.3631590406990982	0.6462469552912659	0.8806357465928991
2024	91431	2 0.06539081358475357	0.30191357073834996	0.5972625666052185	0.8607398094516221
2024	91432	1 0	0.4926928651411016	0.9852378372586826	0.9925449721175811
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2024	91433	2 0.06164815520174427	0.25974688210348157	0.5226073332027458	0.8245086063010084
2024	91434	1 0	0.479376597017922	0.9612149490992954	0.9818383520813733
2024	91434	2 0.07875625909646305	0.2722210629441929	0.5166552919722388	0.8231904881245089
2024	91435	1 0	0	0.48508908414744323	0.9850890841474432
2024	91435	2 0.07691760688883736	0.28548745360589156	0.5396609773489296	0.8310911306318753
2024	91436	2 0.08327955561362588	0.3909835964546442	0.793559272555278	0.9858552317142596
2024	91437	1 0	0.14589851366154388	0.459334010692664	0.8134354970311201
2024	91437	2 0.07164720650225664	0.2591532516237305	0.5019823217911595	0.8144762766696857
2024	91438	2 0.09533059355914375	0.37859681430493	0.7515956600463822	0.968329439300596
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2024	91440	2 0.049565547551976896	0.2776386174769637	0.606031509487928	0.8779584395629413
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2024	91444	2 0.005365730710976679	0.23703167214998705	0.5975096414055645	0.8658436999665541
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2024	91452	1 0.4936234423888473	0.9777259755334372	0.9768460281209701	0.9927434949763801
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2024	91454	2 0.0752872860132105	0.28210809300440426	0.5524757828663401	0.8456549758751464
2024	91455	2 0.05039684090117602	0.29750616950458636	0.6837341000950616	0.9366247714916512
2024	91456	2 0.02519709944944981	0.26861745169580153	0.6594559354974296	0.9160355832510779
2024	91457	2 0.05374045671627686	0.3366104771782116	0.7153597019635282	0.9324896815015935
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2024	91461	1 0.01741814346498477	0.3851423143625523	0.8408558818679646	0.973131710970397
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2024	91462	2 0.20439606979188596	0.6082002238721915	0.9038041540803056	1
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2024	91466	2 0.08384686423520521	0.3390022547378438	0.6374753510332574	0.8823199605306188
2024	91467	2 0.08894042338286007	0.3950936804929089	0.6952926082088565	0.8891393510988076
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2024	91474	1	0.13918559281184217	0.4818228932902605	0.8261780403212439	0.9835407398428255
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2024	91476	1	0.06691598553747558	0.29745382785636665	0.6098954351837147	0.8793575928648236
2024	91477	1	0.08501601308688	0.35733824147808674	0.661986802182166	0.8896645737909593
2024	91478	1	0.0897629458042522	0.3270535139973442	0.5988379857157934	0.8615474175227014
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2024	91486	1	0.049335932509560476	0.21082389820411945	0.45856946624995704	0.7970815005553981
2024	91487	1	0.043438531660451085	0.2103885914384187	0.4596387264300703	0.7926886666521027
2024	91488	2	0.06613846747477314	0.21671243061778112	0.4188494190193831	0.7682754558763751
2024	91489	1	0.0665631561713656	0.3000862932432479	0.5510198800597147	0.8174967429878324
2024	91490	3	0.16752847049837682	0.5520838123888834	0.8785317122073824	0.9939763703168758
2024	91491	2	0.09822922339940393	0.3318913604046997	0.5918450072127426	0.8581828702074469
2024	91492	2	0.11591969354516501	0.3870708678985568	0.6645337188128807	0.893382544459489
2024	91493	3	0.10377913481786433	0.43751746040022427	0.7962550510998725	0.9625167255175126
2024	91494	2	0.053427307630466214	0.26619668704872457	0.5563033173027127	0.8435339378844543
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2024	91496	2	0.09057679505430877	0.29449373507165294	0.5461972175849825	0.8422802775676383
2024	91497	2	0.06027655953915961	0.3086562995506806	0.6452719545644363	0.8968922145529153
2024	91498	1	0.10472195395921652	0.41444802230609623	0.7369750957861576	0.927249027439278
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2024	91502	1	0	0	0	0.5
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2024	91503	2	0.09601637296952187	0.30460966681055457	0.5275547121903921	0.8189614183493594
2024	91504	1	0	0	0.23714989427787103	0.737149894277871
2024	91504	2	0.10480227975799428	0.36979747922369666	0.6461811852928693	0.8811859858271669
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2024	91506	1	0	0	0.0742641357574641	0.574264135757464
2024	91507	1	0	0	0.1678322546269227	0.6678322546269226
2024	91508	1	0	0	0.12081630239717661	0.6208163023971767
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2024	91554	1	0.03289675389226476	0.12286752914391852	0.29547919484964036	0.7055084195979866
2024	91555	1	0.04235381785785197	0.18547121163024982	0.38083020402060097	0.7377128102482031
2024	91556	1	0.10351701161527221	0.35157200497273405	0.6343982755400317	0.8863432821825699
2024	91557	1	0.03207547245256159	0.13684575870938803	0.3107944670941364	0.70602418083731
2024	91558	2	0.041049174144004996	0.1303184511968094	0.32587535482559304	0.7366060777727886
2024	91559	1	0.01440776301911817	0.054545879585807866	0.24037506877209724	0.7002369522054075
2024	91560	1	0.002267977345709382	0.012235749888901526	0.0603301331704823	0.5503623606272902
2024	91561	1	0.030023348166319297	0.10332183108314835	0.3069368580683756	0.7336383751515465
2024	91562	1	0	0.013916230405621177	0.07124971310444944	0.5573334826988283
2024	91563	2	0.0599888146263714	0.3103749097804792	0.684047604358975	0.9336615092048672
2024	91564	1	0.07972534789771979	0.2834498659639043	0.5156493603037666	0.811924842237582
2024	91565	1	0.0674194507693483	0.2031349342627365	0.42278051017338425	0.787065026679996
2024	91566	1	0.0820662927205833	0.36987387007020495	0.7184512128284893	0.9306436354788676
2024	91567	1	0.05175907395770768	0.18844630807419993	0.4090446067748813	0.772357372658389
2024	91568	2	0.07516345545144515	0.34379040344289913	0.6961942329536783	0.9275672849622244
2024	91569	1	0.029558991962942927	0.11457436955559408	0.26638178548496483	0.6813664078923136
2024	91570	1	0.02638874162055005	0.10609448657481901	0.3003116537750876	0.7206059088208187
2024	91571	1	0.06208961653196576	0.3244405444096069	0.7246469555301653	0.9622960276525242
2024	91572	1	0.008762169431404954	0.08271789370725108	0.24684350453638643	0.6728877802605403
2024	91573	1	0	0.36042405611291245	0.71617659022606	0.8557525341131476
2024	91573	2	0.027725692374213518	0.18799901635964966	0.4322977501456695	0.7720244261602334
2024	91574	1	0	0	0.2867603023442471	0.7867603023442471
2024	91574	2	0.035915769778596285	0.19126300215042819	0.5096729002445584	0.8543256678727265
2024	91575	2	0.03524831307399107	0.19046930820369223	0.42926704669911064	0.7740460515694094
2024	91576	1	0	0.3962976284256521	0.8962976284256521	1
2024	91576	2	0.038812827053758825	0.33026057095285194	0.7223179684173924	0.9308702245182993
2024	91577	2	0.10358106409282491	0.391121698521494	0.7092203493219633	0.9216797148932943
2024	91578	2	0.14231484525117083	0.49756180030076813	0.8318890045151942	0.976642049465597
2024	91579	2	0.14302386881062068	0.45542522086764353	0.7704020335685575	0.9580006815115346
2024	91580	1	0	0.49860034357367583	0.9976339349569366	0.9990335913832609
2024	91580	2	0.06418349206758128	0.3297828986850263	0.6550091190019105	0.8894097123844655
2024	91581	1	0	0.4980165495378177	0.9973655802452467	0.999349030707429
2024	91581	2	0.051331413064218345	0.313546864086201	0.6519174091572485	0.8897019581352659
2024	91582	1	0	0.24550799152736297	0.4915395344088045	0.7460315428814415
2024	91582	2	0.05632436767269661	0.29530130994952425	0.6064003481133013	0.8674234058364736
2024	91583	1	0	0	0.4976471043706444	0.9976471043706444
2024	91583	2	0.06232112894477915	0.3168852659942033	0.6341442903206266	0.8795801532712024
2024	91584	2	0.1322697608353991	0.48643674484789784	0.8310712552287032	0.9769042712162044
2024	91585	2	0.20065844500324514	0.5898824058947474	0.8841989047565703	0.9949749438655068
2024	91586	2	0.19550332324868608	0.5512733793391494	0.8557700560904633	1
2024	91587	1	0	0.2959922469228572	0.6679793872183275	0.8719871402954703
2024	91587	2	0.007594994743369721	0.2404706664278603	0.5803220542251737	0.8474463825457574
2024	91588	2	0.020202563754093794	0.11112227098399452	0.29732685115658436	0.7064071439266837
2024	91589	2	0.024415741837780003	0.13442728293265943	0.3780279251015771	0.7680163840066977
2024	91590	2	0.013115349246703267	0.11318747114237299	0.3452254543281371	0.7451533324324674
2024	91591	1	0	0	0.289423994062872	0.789423994062872
2024	91591	2	0	0.05871144740004086	0.24387545805255617	0.6851640106525153
2024	91592	2	7.395694115518436E-4	0.059197033490744566	0.24631165805671834	0.6878541939775256
2024	91593	2	0.06405206964334037	0.231361815491547	0.4242577950065817	0.7569480491583751
2024	91594	2	0.13202712926438004	0.49156235247985847	0.8516301441994817	0.9920949209840032
2024	91595	2	0.18072787782703315	0.5449844883197448	0.859758350608841	0.9955017401161292
2024	91596	2	0.13682541582448354	0.39605595339567673	0.6351350740894939	0.8759045365183007
2024	91597	2	0.08300956895010764	0.30134094998166766	0.5335600065246153	0.8152286254930553
2024	91598	2	0.18178026108202966	0.5072888856261922	0.7560006058020821	0.9304919812579195
2024	91599	1	0	0.4889319754233748	0.9699864980155247	0.98105452259215
2024	91599	2	0.06935658654113891	0.29353260282716975	0.541212377697704	0.8170363614116732
2024	91600	1	0.494872919613127	0.9836375669035803	0.9742970017155974	0.9855323544251442
2024	91600	2	0.07328576798346237	0.3043744587316388	0.5671170300575908	0.8360283393094144
2024	91601	1	0	0.33517890315907006	0.8290146658997105	0.9938357627406404
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2024	91602	1	0	0.29766092734888716	0.6842190255425437	0.8865580981936565
2024	91602	2	0.06175623719990625	0.28592869129955467	0.5417440364168369	0.8175715823171885
2024	91603	3	0.09838108338081325	0.48597336944393843	0.8875922860631251	1
2024	91604	1	0	0.32399133474031916	0.6430384838677363	0.8190471491274172
2024	91604	2	0.04510725902049895	0.2500509747131991	0.5242316691064336	0.8192879534137334
2024	91605	2	0.11907891678860794	0.5028563843360572	0.882493845732474	0.9987163781850249
2024	91606	2	0.08160480517747376	0.37352519478909296	0.758978168632741	0.9670577790211219
2024	91607	1	0.008971359628633546	0.3227050411592851	0.7140914136337843	0.9003577321031326
2024	91607	2	0.0945193499646757	0.3657755441243631	0.6307178138094927	0.8594616196498053
2024	91608	1	0.49038132403068907	0.9737975514409768	0.9605207779301841	0.9771045523198963
2024	91608	2	0	0.4834162274102877	0.9605207797301841	0.9771045523198963
2024	91608	3	0.06373898826426572	0.2854763835577651	0.5324185899491621	0.8106811946556628

2024	91609	3	0.1032745667293764	0.31221392744372173	0.5040583349067194	0.7951189741923741
2024	91610	2	0	0.08411391328926976	0.16392142454767145	0.5798075112584017
2024	91610	3	0.08580648057362189	0.31787273935805177	0.560905787913271	0.8288395291288411
2024	91611	2	0.007171696713038578	0.24764437284859608	0.7228153985728977	0.9823427224373401
2024	91611	3	0.12484101188519142	0.3780832680434504	0.5889712820386563	0.8357290258803973
2024	91612	3	0.1821063396566467	0.558032112523807	0.8353242370167306	0.9593984641495704
2024	91613	3	0.1521780397581481	0.4691490788246383	0.758023590938204	0.9410525518717138
2024	91614	3	0.1762411832285044	0.5346429960623005	0.8129069737334632	0.9545051608996672
2024	91615	3	0.0783429506484995	0.2817854803006197	0.4690116351914041	0.7655691055392839
2024	91616	3	0.00631234168898559	0.1667631097345334	0.42137144410165517	0.7609206760561074
2024	91617	3	0.1542763021009826	0.5357344123821792	0.8666347894982602	0.9851766792170636
2024	91618	3	0.0799349712220443	0.23988077955432408	0.4687449890380432	0.8087991807057634
2024	91619	3	0.035948638469028626	0.1489334063066451	0.3797604498379654	0.766775682000349
2024	91620	3	0.07429094302197614	0.41764755446146273	0.7554349852410966	0.91207837380161
2024	91620	4	0.129014928173455	0.39687159948601064	0.6218581680934496	0.854001496780894
2024	91621	3	0.07848001109222696	0.2791393695056011	0.4793816383199558	0.7787222799065816
2024	91622	3	0.06974286003636404	0.2984043340322022	0.5339253282163215	0.8052638542204834
2024	91623	3	0.08672341478629858	0.30404350163695054	0.5286356776685301	0.8113155908178782
2024	91624	3	0.09673354774921539	0.39638182049206516	0.7177206291354412	0.9180723563925914
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2024	91626	3	0.0679987150829564	0.3153819641550067	0.542993942524132	0.7956106934520817
2024	91627	3	0.16170824589201782	0.5942314705221595	0.9325232246301417	1
2024	91628	2	0.003980332188751823	0.003980332188751823	0.4849746021236225	0.9849746021236225
2024	91628	3	0.08149711071224175	0.2701414554467342	0.5061692824285846	0.8175249376940923
2024	91629	3	0.07254481786967387	0.2911842960445739	0.5611810509652662	0.8425415727903662
2024	91630	2	0	0.24068147616417118	0.7356047458909301	0.9949232697267589
2024	91630	3	0.07622147161164616	0.3095871051925681	0.6016491454872974	0.8682835119063754
2024	91631	3	0.1129904529926325	0.37361870893574417	0.6121053784815347	0.851477122538423
2024	91643	1	0.1633130659879996	0.47507070796530265	0.6211661671985883	0.8094085252212853
2024	91643	3	0.10301788960211045	0.34818085915320757	0.5819293061474724	0.8367663365963752
2024	91644	1	0.14083715859979218	0.39536066289575617	0.623548124210024	0.86902461991406
2024	91644	3	0.17920349523345552	0.5055091777472414	0.7213204014377468	0.895014718923961
2024	91650	1	0	0	0	0.5
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2024	91651	1	0.00582279953194359	0.00582279953194359	0.4911090782315529	0.9911090782315529
2024	91651	2	0.11188340559254967	0.35059131980773234	0.5792488106285538	0.8405408964133712
2024	91652	2	0.14042232895973483	0.47562740120552116	0.7937258827978448	0.9585208105520584
2024	91653	2	0.10659132122855025	0.40218807768135245	0.7186356204302174	0.9230388639774152
2024	91654	1	0	0	0.4890695155222967	0.9890695155222967
2024	91654	2	0.05131113182665703	0.2306499979567776	0.5155391726203286	0.8361553046513078
2024	91679	1	0.02153760716022224	0.21308540551875854	0.5814305650872779	0.8898827667287416
2024	91680	1	0.007217584514531639	0.15480827310544565	0.42872875037101255	0.7811380617800985
2024	91681	1	0.08245128077289349	0.26356309571681946	0.45797465820071526	0.7768628432567892
2024	91682	1	0.05989110524357716	0.2750719833481807	0.5932035388072275	0.8780226607026239
2024	91683	1	0.046195645319526024	0.16367083013893763	0.4029656129284369	0.7854904281090254
2024	91725	1	0	0.49480906738371383	0.9815557512104668	0.986746683826753
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2024	91735	2	0.052003105877587885	0.2533616041478247	0.5297234394363757	0.8283649411661389
2024	91736	2	0.16543238033148222	0.506868888679038	0.7250250586644321	0.8835885503168763
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2024	91789	2	0.13654098255053781	0.42147181659661415	0.6705693665015291	0.8856385324554528
2024	91803	1	0.09585528918026032	0.34708743523357055	0.6395357190926865	0.8883035730393762
2024	91804	1	0.10469251945739394	0.39494166496369143	0.7477284901507016	0.9574793446444041
2024	91805	1	0.20555151467584043	0.4822952115381487	0.6199487313920787	0.8432050345297705
2024	91806	1	0.051162066887245505	0.30846737325906537	0.6765634265274734	0.9192581201556534
2024	91807	1	0.10334382914529944	0.32426028658627565	0.5686597425407707	0.8477432850997945
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2024	91809	1	0.07659304366639813	0.2579045444975552	0.5446682667628887	0.8633567659317317
2024	91810	1	0.0914101531958364	0.3092768816801621	0.5445345606643681	0.8266678321800425
2024	91811	1	0.0625	0.5273972598458905	0.9263698627996576	0.9614726029537671
2024	91812	1	0.05336327099139632	0.15684422861907582	0.5006227369504437	0.8971417793227642
2024	91813	1	0	0.19275304348787642	0.6927530434878764	1
2024	91814	1	0	0.19014140295325976	0.6901414029532598	1
2024	91815	1	0.08697777882987834	0.49274605170914826	0.8266326367329365	0.9208643638536665
2024	91816	1	0	0.2950321393337252	0.765643512980087	0.9706113736463619
2024	91817	1	0.12273219844552558	0.31033759487537277	0.4633931161718465	0.7757877197419993
2024	91818	1	0.04194331948442187	0.2447643982001706	0.5831264746898353	0.8803053959740865
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2024	91822	1	0.13513068986520066	0.3367499131331963	0.6592691315604862	0.9576499082924904
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2024	91824	1	0.04319464055253702	0.18098043580036782	0.479725840949197	0.8419400456970889
2024	91825	1	0	0.11675911913603904	0.4887647822544392	0.8720056631184001
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2024	91835	1 0	0	0.03661615909090721	0.5366161590909072
2024	91836	1 0	0.16666666666666669	0.33333333333333337	0.6666666666666667
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2024	91856	1 0	0.454582388865826	0.9472754408505821	0.9926930519847561
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2024	91858	1 0	0	0.5	1
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2024	91872	1 0.06167514795934875	0.2710093911264545	0.5440672877114536	0.8347330445443479
2024	91873	1 0.04246809370716781	0.24485451402788322	0.5335136715376273	0.8311272512169119
2024	91874	1 0.05065560868869451	0.2719573722467978	0.5545255617248861	0.8332237981667829
2024	91875	1 0.05535525065306429	0.2711123870835997	0.5422274257452401	0.8264702893147047
2024	91876	1 0.062322136251521554	0.393271859445416	0.8066408560100871	0.9756911328161925
2024	91900	1 0.05084914019159992	0.2784407578241281	0.5224319102365363	0.7948402926040082
2024	91901	1 0.05807344324325825	0.26439195176465907	0.49747179170227995	0.7911532831808791
2024	91902	1 0.0925171015384319	0.290409909058797045	0.4753365948326467	0.7773627057831082
2024	91903	1 0.08008992306730522	0.29409759975509076	0.5062275293073392	0.7922198526195536
2024	91904	1 0.14327288048320602	0.35902681490762706	0.512846394926896	0.797092460502475
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2024	91906	1 0.06078037548327536	0.2352265502092597	0.4327575109352696	0.7583113362092853
2024	91907	1 0.07741946211031264	0.27815498860462595	0.49058218765123474	0.7898466611569215
2024	91908	1 0.13749791388717086	0.42487507138280967	0.709663345490678	0.9222861879950391
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2024	91985	2 0.024661537329382588	0.1523744733534303	0.3583660452310227	0.730653109206975
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2025	1818	8 0	0.5	1	1
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2025	2595	11 0.03457705551166862	0.5345770555116687	1	1
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2025	13372	9	0	0.1258434129027829	0.344642556312789	0.7187991434100061
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2025	23094	6 0	0.5	1	1
2025	23134	7 0	0.5	1	1
2025	23135	7 0	0.5	1	1
2025	23136	7 0	0.5	1	1
2025	23137	7 0	0.5	1	1
2025	23140	7 0	0.5	1	1
2025	23141	7 0	0.5	1	1
2025	23157	7 0	0.5	1	1
2025	23229	5 0.002066825840852604	0.501835663892034	0.9996738964025077	0.9999050583513264

2025	23372	3 0	0.5	1	1
2025	23373	2 0	0.5	1	1
2025	23374	4 0.01686644794129033	0.5168664479412903	1	1
2025	23375	4 0.008517414984048344	0.5085174149840483	1	1
2025	23377	3 0	0.5	1	1
2025	23382	5 0	0.5	1	1
2025	23386	6 0.01314581587080937	0.5131458158708093	1	1
2025	23387	3 0	0.5	1	1
2025	23387	4 0.006897210752438598	0.5068972107524385	1	1
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2025	23389	5 0	0.5	1	1
2025	23406	3 0.001601862463198933	0.5016018624631989	1	1
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2025	23424	2 0.002276792971764141	0.5022767929717642	1	1
2025	23424	3 0.0345348574878932	0.5345348574878932	1	1
2025	23425	2 0.006660339564367401	0.5066603395643674	1	1
2025	23425	3 0.06023176813579595	0.560231768135796	1	1
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2025	23426	3 0	0.5	1	1
2025	23427	2 0	0.5	1	1
2025	23427	3 0	0.5	1	1
2025	23428	2 0	0.5	1	1
2025	23428	3 0	0.5	1	1
2025	23429	3 0	0.5	1	1
2025	23431	2 0	0.5	1	1
2025	23431	3 0.07142857142857145	0.5714285714285714	1	1
2025	23433	2 0	0.5	1	1
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2025	23434	3 0	0.5	1	1
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2025	23435	3 0	0.5	1	1
2025	23436	6 0	0.5	1	1
2025	23542	2 0.02542660619595866	0.5254266061959587	1	1
2025	23552	2 0	0.5	1	1
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2025	23648	3 0	0.5	1	1
2025	23648	4 0	0.5	1	1
2025	23743	3 0	0.5	1	1
2025	23755	3 0.004843807697836766	0.5048438076978368	1	1
2025	23758	4 0.003505908483057207	0.5035059084830572	1	1
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2025	23760	3 0	0.5	1	1
2025	23764	4 0	0.5	1	1
2025	23766	3 0.06873113873584047	0.5687311387358405	1	1
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2025	23769	3 0.01643323620091836	0.5164332362009183	1	1
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2025	23921	4 0	0.5	1	1
2025	23923	7 0	0.5	1	1
2025	23925	5 0	0.5	1	1
2025	23927	2 0	0.5	1	1
2025	23929	2 0	0.5	1	1
2025	23930	2 0.06182626323977064	0.5543140082204306	0.9907538438441089	0.9982660988634489
2025	23933	2 0.1108195067498639	0.6108195067498638	1	1
2025	23943	2 0	0.5	1	1
2025	23960	3 0	0.5	1	1
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2025	23962	4 0	0.5	1	1
2025	23963	4 0	0.5	1	1
2025	23964	4 0	0.5	1	1
2025	23966	2 0	0.5	1	1
2025	23966	3 0	0.5	1	1
2025	23992	3 0.01041666666666669	0.5104166666666667	1	1
2025	23998	3 0	0.5	1	1
2025	23999	3 0	0.5	1	1
2025	24085	3 0	0.5	1	1
2025	24089	4 0	0.5	1	1
2025	24093	3 0.02455668215141521	0.5245566821514152	0.999670341173461	0.9996703411734609
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2025	24099	3 0	0.5	1	1
2025	24148	2 0.08013644274950177	0.5801364427495017	1	1
2025	24275	2 0.05016109992203333	0.5464721110887374	0.9955533067255082	0.9992422955588042
2025	24306	2 0.05869454056266676	0.5548655510578109	0.9950433441513572	0.998872333656213
2025	24338	2 0.006973701456482739	0.5069737014564828	1	1
2025	24362	2 0.001565953188397751	0.5015659531883978	1	1
2025	24372	2 0	0.5	1	1
2025	24378	2 0.004125759714724619	0.5038695583981505	0.9996592643689428	0.999915465685517
2025	24378	3 0.003954233128103668	0.5036980318115296	0.9996592643689428	0.999915465685517
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2025	24381	2 0	0.5	1	1

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2025	24401	2 0	0.5	1	1
2025	24401	3 0	0.5	1	1
2025	24411	2 0	0.5	1	1
2025	24458	2 0	0.5	1	1
2025	24525	6 0.05088733910544191	0.5508873391054419	1	1
2025	24538	3 0	0.5	1	1
2025	24539	3 0	0.5	1	1
2025	24558	3 0	0.5	1	1
2025	24559	3 0	0.5	1	1
2025	24560	3 0	0.5	1	1
2025	24561	3 0.02024120526006967	0.5202412052600697	1	1
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2025	24563	3 0.02983225392110905	0.5298322539211091	1	1
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2025	24574	6 0	0.5	1	1
2025	24624	2 0.2	0.7	1	1
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2025	24733	3 0.1208446418212253	0.6208446418212253	1	1
2025	24733	4 0.112127875584283	0.6121278755842829	1	1
2025	24821	3 0	0.5	1	1
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2025	24828	2 0.04753888582326504	0.547538885823265	1	1
2025	24837	2 0.1196504531718701	0.6196504531718701	1	1
2025	24837	3 0.006014089535506417	0.5060140895355064	1	1
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2025	24895	4 0	0.5	1	1
2025	24996	3 0.01605478909637137	0.5160547890963714	1	1
2025	24999	3 0.02270081469480245	0.5227008146948025	1	1
2025	24999	4 6.266245171639984E-4	0.500626624517164	1	1
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2025	25043	5 0	0.5	1	1
2025	25044	3 0	0.5	1	1
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2025	25045	5 0	0.5	1	1
2025	25078	3 0	0.5	1	1
2025	25192	3 0.003939366341837225	0.5039393663418372	1	1
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2025	25193	3 0	0.5	1	1
2025	25193	4 0	0.5	1	1
2025	25399	4 0	0.5	1	1
2025	25424	5 0.01013753030740516	0.5101375303074052	1	1
2025	25435	2 0	0.5	1	1
2025	25435	3 0	0.5	1	1
2025	25437	3 0	0.5	1	1
2025	25443	2 0	0.5	1	1
2025	25456	2 0	0.5	1	1
2025	25456	3 0.1242343113752007	0.6242343113752007	1	1
2025	25456	4 0.02051090711988152	0.5205109071198815	1	1
2025	25470	6 0.06527660768403465	0.5652766076840346	1	1
2025	25473	6 0	0.5	1	1
2025	25475	6 0	0.5	1	1
2025	25504	3 0	0.5	1	1
2025	25508	3 0.01693454606367556	0.5169345460636756	1	1
2025	25508	4 0.02099514265902153	0.5209951426590216	1	1
2025	25509	3 0	0.5	1	1
2025	25510	3 0	0.5	1	1
2025	25510	4 0	0.5	1	1
2025	25510	5 0	0.5	1	1
2025	25557	3 0.02315529316036802	0.523155293160368	1	1
2025	25559	3 0.04535518427052176	0.5453551842705218	1	1
2025	25562	3 0.0248407927700503	0.5243128518346742	0.9990710474445903	0.9995989883799663
2025	25572	2 0.03396251179325854	0.5339625117932585	1	1
2025	25572	3 0.05364050821544103	0.553640508215441	1	1
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2025	25788	4 0	0.5	1	1
2025	25790	2 0	0.5	1	1
2025	25790	3 0.005952380952380931	0.5059523809523809	1	1
2025	25792	2 0.04999999999999999	0.55	1	1
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2025	25794	2 0	0.5	1	1
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2025	25968	3 0	0.5	1	1
2025	25987	5 0	0.5	1	1
2025	26117	3 0.1295529557747648	0.6271543540971594	0.9976013983223947	1
2025	26117	4 0.04455295577476476	0.5421543540971594	0.9976013983223947	1
2025	26119	6 0.1725009328259011	0.4800196510089141	0.6718885087477404	0.8643697905647273
2025	26120	6 0.1708496515361995	0.3211258065155543	0.2723833742411662	0.6221072192618113

2025	26121	6	0.1993443267811283	0.499206283401741	0.6437602314971544	0.8438982748765418
2025	26122	6	0.1665808085752348	0.4504913394295296	0.683314698282124	0.8994041674278292
2025	26123	6	0.05907297695382191	0.230448910529177	0.4040958804308392	0.7327199468554841
2025	26148	6	0	0.5	1	1
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2025	26198	2	0	0.5	1	1
2025	26198	3	0	0.5	1	1
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2025	26308	6	0.007220914597605987	0.507220914597606	1	1
2025	26323	1	0	0.5	1	1
2025	26461	3	0.001756964175423093	0.5017569641754231	1	1
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2025	26463	3	0	0.5	1	1
2025	26463	4	0.04943136573170898	0.5494313657317089	1	1
2025	26463	5	0	0.5	1	1
2025	26472	3	0	0.5	1	1
2025	26540	6	0.0971559117533371	0.3537379371767372	0.6183361969859648	0.8617541715625647
2025	26707	5	0.07455014709209828	0.5745501470920983	1	1
2025	26708	5	0.03109730715906206	0.5310973071590621	1	1
2025	26768	3	0.5	1	1	1
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2025	26784	3	0	0.5	1	1
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2025	26801	5	0	0.5	1	1
2025	26971	2	0.001292409935396921	0.5012924099353969	1	1
2025	26972	3	0.06295494023890041	0.5629549402389005	1	1
2025	26974	3	0	0.5	1	1
2025	26984	4	0	0.5	1	1
2025	27104	2	0	0.5	1	1
2025	27107	4	0.1071108944187562	0.6071108944187562	1	1
2025	27110	4	0.02173913043478259	0.5217391304347826	1	1
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2025	27120	4	0	0.5	1	1
2025	27123	4	0.1492210077310495	0.6492210077310494	1	1
2025	27125	4	0	0.5	1	1
2025	27141	1	0	0.5	1	1
2025	27141	2	0	0.5	1	1
2025	27159	3	0	0.5	1	1
2025	27164	2	0.01244715985622269	0.5124471598562227	1	1
2025	27166	2	0	0.5	1	1
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2025	27168	2	0	0.5	1	1
2025	27171	2	0	0.5	1	1
2025	27172	3	0	0.5	1	1
2025	27173	3	0	0.5	1	1
2025	27175	3	0	0.5	1	1
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2025	27208	3	0.01594851204616626	0.5159485120461662	1	1
2025	27210	2	0.1107227071117532	0.6107227071117531	1	1
2025	27216	4	0	0.5	1	1
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2025	27229	6	0.00491551545176061	0.5049155154517606	1	1
2025	27309	2	0	0.5	1	1
2025	27329	4	0	0.5	1	1
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2025	27352	4	0	0.5	1	1
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2025	27360	3	0	0.5	1	1
2025	27360	5	0	0.5	1	1
2025	27360	6	0	0.5	1	1
2025	27361	2	0	0.5	1	1
2025	27361	3	0	0.5	1	1
2025	27361	5	0	0.5	1	1
2025	27361	6	0	0.5	1	1
2025	27363	2	0	0.5	1	1
2025	27363	3	0	0.5	1	1
2025	27363	4	0	0.5	1	1
2025	27365	2	0	0.5	1	1
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2025	27365	4	0	0.5	1	1
2025	27457	3	0	0.5	1	1
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2025	27460	3	0	0.5	1	1
2025	27461	2	0	0.5	1	1

2025	27461	3	0.004854368932038833	0.5048543689320388	1	1
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2025	27552	3	0	0.07925407230862841	0.3899595983383119	0.8107055260296835
2025	27557	3	0	0.5	1	1
2025	27563	3	0.008996098291208399	0.5076597576606493	0.9978057358706995	0.9991420765012586
2025	27563	4	0	0.4986636593694409	0.9978057358706995	0.9991420765012586
2025	27604	2	0	0.5	1	1
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2025	27628	4	0	0.5	1	1
2025	27644	2	6.164907627352334E-4	0.4982917457208051	0.9968079395667445	0.9991326846086745
2025	27644	3	0.01737626729904807	0.5150515222571179	0.9968079395667445	0.9991326846086745
2025	27644	4	6.164907627352334E-4	0.4982917457208051	0.9968079395667445	0.9991326846086745
2025	27645	3	0.004838781817445292	0.5048387818174453	1	1
2025	27646	3	0.01038353848737333	0.5103835384873734	1	1
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2025	27647	4	0	0.5	1	1
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2025	27705	2	0	0.5	1	1
2025	27712	2	0	0.5	1	1
2025	27714	2	0.2564903272233846	0.7477269992361979	0.9862252750340277	0.9949886030212143
2025	27716	2	0	0.5	1	1
2025	27731	4	0.03846153846153844	0.5384615384615384	1	1
2025	27837	3	0.0689835360383122	0.2556006954116563	0.5284406043039972	0.8418234449306531
2025	27840	3	0.05498046810879487	0.2153108014273391	0.4319013086339133	0.7715709753153691
2025	27843	3	0.05650646412677723	0.2057555700935589	0.4465734623029082	0.7973243563361264
2025	27846	3	0.08077739356263441	0.2497114923175676	0.4220570034089	0.7531229046539667
2025	27849	3	0.05320621188513625	0.210647498390344	0.4503939227848584	0.7929526362796505
2025	27852	3	0.03266637994269228	0.2277542808190279	0.4858673993858491	0.7907794985095136
2025	27910	3	0	0.5	1	1
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2025	27912	3	0	0.5	1	1
2025	27927	2	0.005245703838225646	0.4987624619772938	0.9901459564881917	0.9966291983491237
2025	27927	3	0.004010118994733081	0.4975268771338012	0.9901459564881917	0.9966291983491237
2025	27928	2	0.004786141385841214	0.4997177162364808	0.9923923628756285	0.9974607880249889
2025	27928	3	0.003937964965145702	0.4988695398157853	0.9923923628756285	0.9974607880249889
2025	27929	2	0.004430335599022284	0.4990957410210074	0.9916452670619246	0.9969798616399395
2025	27929	3	0.003527808523209997	0.4981932139451951	0.9916452670619246	0.9969798616399395
2025	27934	4	1.121214838183393E-4	0.496771888134961	0.9951072627493859	0.9984474960982432
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2025	27943	4	0	0.5	1	1
2025	27948	4	0	0.5	1	1
2025	27954	4	0	0.5	1	1
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2025	27955	4	0.003362881936328832	0.5004095905837669	0.9956914513663566	0.9986447427189187
2025	27955	5	0.02491460607425988	0.5219613147216979	0.9956914513663566	0.9986447427189187
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2025	27961	3	0	0.5	1	1
2025	27962	3	0	0.5	1	1
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2025	27965	2	0	0.5	1	1
2025	28005	4	0.04499990850296842	0.08640859134355294	0.2210143694921542	0.6796056866515696
2025	28007	6	0.06170155163526331	0.2205132078272378	0.3435507531225472	0.6847390969305727
2025	28017	2	0	0.5	1	1
2025	28018	2	0	0.5	1	1
2025	28031	3	0	0.5	1	1
2025	28032	4	0	0.5	1	1
2025	28062	3	0.00867840961695071	0.2970541078445576	0.7527033809348523	0.9643276827072456
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2025	28068	3	0.07730578804620397	0.3629575467331074	0.7138773364762305	0.9282255777893271
2025	28068	4	0.0715169891679488	0.3711881574982084	0.7123070857643355	0.9126359174340759
2025	28069	3	0.153616428514018	0.4379957677011743	0.6505622498133639	0.8661829106262076
2025	28069	4	0.07006401313445831	0.3564150907376514	0.6927081584561505	0.9063570808529574
2025	28070	3	0.1307220115910762	0.4623356656224255	0.7731920477895051	0.9415783937581559
2025	28070	4	0.1013328452445529	0.3609142288187374	0.6950450379290876	0.9354636543549032
2025	28098	3	0	0.4779102380750411	0.9608917223305445	0.9829814842555034
2025	28098	4	0.03686422700829717	0.3138604501882807	0.6545274704686623	0.8775312472886787
2025	28099	2	0	0.4837619469562683	0.9711435894918815	0.9873816425356132
2025	28099	3	0.07262499729467586	0.3803270938768794	0.7055575545791632	0.8978554579969598
2025	28100	4	0.05826971200252062	0.3648906438452101	0.6970506133836375	0.8904296815409481
2025	28101	4	0.08267395035136377	0.3222609233467493	0.5846901793019277	0.8451032063065422
2025	28103	3	0.1931218085239866	0.5052863915220193	0.7083515029261228	0.8961869199280902
2025	28104	3	0.09356649921066928	0.394461002923062	0.7050080534811605	0.9041135497687678
2025	28106	2	0.06962525163926403	0.5678825858951208	0.9971956801498808	0.9989383458940242
2025	28107	3	0.05587469759181463	0.554308055866981	0.9977179712258963	0.99928461295073
2025	28121	3	0	0.1219538795607066	0.4696101298048472	0.8476562502441406

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2025	30265	2 0.001592883214769469	0.5015928832147695	1	1
2025	30266	1 0	0.5	1	1
2025	30266	2 8.085905394338289E-4	0.5008085905394338	1	1
2025	30280	1 0	0.5	1	1
2025	30434	1 0.002504150863875398	0.5025041508638755	1	1
2025	30435	1 0.001041894207244209	0.5002388948640601	0.998962734343119	0.9997657336863032
2025	30436	1 0	0.5	1	1
2025	30437	1 0	0.5	1	1
2025	30438	1 0.0173455971438124	0.5173455971438123	1	1
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2025	30443	1 0	0.5	1	1
2025	30444	1 0	0.5	1	1
2025	30445	1 0	0.5	1	1
2025	30446	1 0	0.5	1	1
2025	30447	2 0.008941197253983069	0.508941197253983	1	1
2025	30447	3 0.07055815172808039	0.5705581517280804	1	1
2025	30448	1 0	0.5	1	1
2025	30470	1 0	0.5	1	1

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2025	30480	1	0.03656468829852172	0.5365646882985218	1	1
2025	30507	1	0.09569211871138122	0.5956921187113813	1	1
2025	30507	2	0.1623587853780479	0.6623587853780479	1	1
2025	30507	3	0.1867773900292107	0.6867773900292107	1	1
2025	30508	1	0.01429506791920204	0.514295067919202	1	1
2025	30508	2	0.433213986838121	0.933213986838121	1	1
2025	30508	3	0.1809617345858687	0.6809617345858687	1	1
2025	30509	1	0.1483808535698643	0.6483808535698643	1	1
2025	30509	2	0.3437590048303685	0.8437590048303685	1	1
2025	30509	3	0.1540199513142252	0.6540199513142252	1	1
2025	30510	1	0.01643968927826928	0.5164396892782692	1	1
2025	30510	2	0.4807254035639836	0.9807254035639836	1	1
2025	30510	3	0.1807254035639836	0.6807254035639836	1	1
2025	30511	1	0.1181855516581138	0.6181855516581138	1	1
2025	30511	2	0.1488459290166044	0.6488459290166044	1	1
2025	30511	3	0.07863477040811384	0.5786347704081138	1	1
2025	30515	1	0	0.5	1	1
2025	30516	1	0	0.5	1	1
2025	30517	1	0.03288250410674054	0.5328825041067405	1	1
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2025	30518	1	0.02360056970396207	0.5236005697039621	1	1
2025	30519	1	0.01758452992457904	0.5162812922882781	0.9983048491175447	0.9996080867538456
2025	30526	1	0	0.5	1	1
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2025	30532	1	0	0.5	1	1
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2025	30533	1	0	0.5	1	1
2025	30533	2	0	0.5	1	1
2025	30536	1	0	0.5	1	1
2025	30537	1	0	0.5	1	1
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2025	30540	2	0.02757435073582421	0.5275743507358241	1	1
2025	30541	3	0.0232980739782121	0.5207442609077972	0.9958297358861122	0.998383548956527
2025	30556	1	0.00800573232093088	0.5080057323209308	0.9999913501776664	0.9999913501776664
2025	30558	1	0.004889857025547173	0.5048898570255471	1	1
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2025	30561	1	0.02203436518463631	0.5220343651846363	1	1
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2025	30563	1	0	0.5	1	1
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2025	30565	1	0	0.5	1	1
2025	30566	1	0	0.5	1	1
2025	30567	1	0.02687133199681091	0.5260894295377156	0.9992180975409047	1
2025	30568	1	0.04469398696150145	0.5446939869615015	1	1
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2025	30570	1	0.001288659793814428	0.5012886597938144	1	1
2025	30571	1	0	0.5	1	1
2025	30573	1	0	0.5	1	1
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2025	30596	1	0	0.5	1	1
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2025	30613	2	0	0.5	1	1
2025	30616	1	0	0.5	1	1
2025	30616	2	0	0.5	1	1
2025	30617	2	0	0.5	1	1
2025	30619	2	0	0.5	1	1
2025	30620	2	0	0.5	1	1
2025	30621	2	0	0.5	1	1
2025	30622	2	0.07142857142857145	0.5610119047619048	0.9895833333333333	1
2025	30634	1	0	0.5	1	1
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2025	30636	1	0.01318050504514229	0.5131805050451423	1	1
2025	30636	2	0.07433057517136948	0.5743305751713694	1	1
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2025	30638	1	0	0.5	1	1
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2025	30798	2 0	0.5	1	1
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2025	30843	2 0	0.5	1	1
2025	30886	1 0.03061224489795916	0.5306122448979591	1	1
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2025	30906	1 0.03778712053284761	0.5377871205328476	1	1
2025	30906	2 0.05624848738047161	0.5562484873804716	1	1
2025	30906	3 0.003873555106677196	0.5038735551066772	1	1
2025	30911	1 0.04189266947330456	0.5418926694733046	1	1
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2025	30911	3 0.006245222721678156	0.5062452227216782	1	1
2025	30916	2 0.04702603982636516	0.5470260398263651	1	1
2025	30932	1 0.08116034064793903	0.5811603406479391	0.9998909281540147	0.9998909281540146
2025	30933	1 0.0972222087517246	0.5972222087517246	1	1
2025	30933	2 0.07924835254257429	0.5792483525425742	1	1
2025	30935	1 0.1289691842053405	0.6289691842053405	1	1
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2025	30936	1 0.1440786741945818	0.6440786741945819	0.9986004460478942	0.9986004460478942
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2025	30963	1 0	0.5	1	1
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2025	30982	2 0.05294800083567997	0.1873556793645761	0.438331898082242	0.8039242195533458
2025	30986	2 0.1064359057054586	0.6064359057054586	1	1
2025	30987	1 3.981064895022257E-4	0.5003981064895022	1	1
2025	30987	2 0.05302968543687064	0.5530296854368706	1	1
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2025	30990	1 0.02741784781411238	0.0843898109512426	0.2134401248265666	0.6564681616894363
2025	30990	2 0.05463995546517447	0.2084875630650805	0.4129142432014893	0.7590666356015832
2025	30996	2 0.1648620031484582	0.6648620031484582	1	1
2025	30997	1 0.05862090715641338	0.3837076402756006	0.7164223132558718	0.8913355801366846
2025	30997	2 0.0615169241828652	0.3655410242828976	0.6781229314782292	0.8740988313781968
2025	30997	3 0.06120992119580909	0.3438848676284004	0.6547575149498521	0.8720825685172607
2025	31003	1 0.08093273802755901	0.5809327380275591	1	1
2025	31003	2 0.1179346355607659	0.6179346355607659	1	1
2025	31004	1 0.02672897567414678	0.4447027878648631	0.8774999180115182	0.9595261058208019
2025	31004	2 0.03995267661506397	0.3282113069798923	0.660177717452054	0.8719190870872257
2025	31008	1 0.08957001485963656	0.5895700148596366	1	1
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2025	31019	2 0.09999999999999998	0.6	1	1
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2025	31027	1 0.06708784022783604	0.3615413533410343	0.721094540337308	0.9266410272241097
2025	31027	2 0.09876204837263242	0.4120692568101143	0.7253680446108122	0.9120608361733303
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2025	31033	2 0.1977417535744941	0.6977417535744941	1	1
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2025	31070	2 0.1377171648032558	0.6377171648032558	1	1
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2025	31184	3	0	0.5	1	1
2025	31186	3	0	0.5	1	1
2025	31245	2	0	0.5	1	1
2025	31284	2	0	0.3571428571428572	0.7142857142857143	0.8571428571428572
2025	31288	1	0	0.4984084245193212	0.9979725222948407	0.9995640977755194
2025	31288	2	0.03934898885265664	0.5377574133719778	0.9979725222948407	0.9995640977755194
2025	31290	1	0	0.5	1	1
2025	31292	1	0	0.5	1	1
2025	31293	1	0	0.5	1	1
2025	31384	1	0.1239977786019425	0.6239977786019425	1	1
2025	31385	1	0	0.5	1	1
2025	31386	1	0.1155672779565536	0.6155672779565536	1	1
2025	31387	1	0.01909590521716797	0.519095905217168	0.9987555533542939	0.9987555533542939
2025	31388	1	0.05368573848456393	0.5536857384845639	1	1
2025	31436	1	0	0.5	1	1
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2025	31446	2	0	0.5	1	1
2025	31457	2	0	0.5	1	1
2025	31500	2	0.01806967104903273	0.5123666072463768	0.9934596178280614	0.9991626816307173
2025	31501	2	0	0.5	1	1
2025	31501	3	0.01250997522413583	0.5125099752241358	1	1
2025	31502	2	0	0.5	1	1
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2025	31503	2	0	0.5	1	1
2025	31504	2	0.02873749714585644	0.523624969151743	0.9948874720058866	1
2025	31508	1	0.0520221251708673	0.5520221251708672	1	1
2025	31508	2	0.004915110321916938	0.5049151103219169	1	1
2025	31533	2	0	0.5	1	1
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2025	31537	2	0.1987894012602148	0.6987894012602147	1	1
2025	31538	1	0.2897795304958274	0.7897795304958274	1	1
2025	31538	2	0.1121733528896498	0.6121733528896498	1	1
2025	31542	2	0	0.5	1	1
2025	31547	1	0	0.5	1	1
2025	31604	1	0	0.5	1	1
2025	31614	3	0.02469724845267801	0.524697248452678	1	1
2025	31615	3	0	0.5	1	1
2025	31616	3	0	0.5	1	1
2025	31617	3	0	0.5	1	1
2025	31618	3	0	0.5	1	1
2025	31622	3	0	0.5	1	1
2025	31623	3	0	0.5	1	1
2025	31624	3	0	0.5	1	1
2025	31625	3	0	0.5	1	1
2025	31630	2	0	0.4891510144648975	0.9891510144648974	1
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2025	31642	2	0	0.5	1	1
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2025	31675	1	0.0358220518359737	0.5358220518359738	1	1
2025	31677	1	0.06851172898762226	0.5685117289876223	1	1
2025	31678	1	0.08730654677191257	0.5873065467719125	1	1
2025	31679	1	0.0104472674977964	0.5104472674977965	1	1
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2025	31832	1	0	0.5	1	1
2025	31833	1	0	0.5	1	1
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2025	31835	1	0	0.5	1	1
2025	31836	1	0	0.5	1	1
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2025	31942	1	0	0.5	1	1
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2025	31958	3 0.005466864092234458	0.5054668640922344	1	1
2025	31958	4 0.005466864092234458	0.5054668640922344	1	1
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2025	32054	1 0.07005371394779308	0.570053713947793	1	1
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2025	32158	1 0	0.5	1	1
2025	32181	1 0.04498800705473993	0.2725906188259161	0.5515053820444091	0.823902770273233
2025	32181	2 0.01330213683036152	0.4280636327737632	0.903612719824882	0.9888512238814804
2025	32182	1 0.0364893244979449	0.3013908618623906	0.666474145093509	0.9015726077290632
2025	32182	2 0	0.4502162226791311	0.9479426765620405	0.9977264538829094
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2025	32184	1 0.07215676946074473	0.3410976976673495	0.7689409282066049	1
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2025	32185	1 0.02350187818519983	0.2772675023443467	0.6394310626029843	0.8856654384438375
2025	32185	2 0	0.4108764864211849	0.9018050827597592	0.9909285963385743
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2025	32258	1 0	0.5	1	1
2025	32259	1 0	0.5	1	1
2025	32304	1 0.1110585270379872	0.334589062324164	0.5219113188699384	0.7983807835837615
2025	32305	1 0.154363913296344	0.2908034051896496	0.3539022035572315	0.7174627116639258
2025	32340	2 0.04999999999999999	0.55	1	1
2025	32343	1 0.01724137931034481	0.5172413793103448	1	1
2025	32346	2 0	0.5	1	1
2025	32347	2 0	0.5	1	1
2025	32360	1 0.01531319768784356	0.1779370620501805	0.4490945687312546	0.7864707043689178
2025	32366	1 0.1260741167613456	0.322090814704528	0.5141195352967566	0.8181028373535741
2025	32367	1 0.04139615007551284	0.2543134927430996	0.5769524591824023	0.8640351165148157
2025	32368	1 0.1194799933810716	0.3344694286916977	0.525154333072358	0.810164897761732
2025	32369	1 0.06058314048714358	0.1677687623952353	0.3406993825042093	0.7335137605961176
2025	32370	1 0.05597436510460785	0.165476652131041	0.4350238650136734	0.8255215779872402
2025	32371	1 0.09288819591772401	0.266706638627582	0.4921952251222018	0.8183767824123438
2025	32372	1 0.1420581577925019	0.3719837670792993	0.6038018337119704	0.873876224425173
2025	32373	1 0.04969925711076662	0.2975233579409387	0.5757913510132184	0.8279672501830464
2025	32374	1 0.06089891716084905	0.2647640986270706	0.5051121110559226	0.801246929589701
2025	32375	1 0.05595548777089265	0.2008425540049435	0.3805459667675761	0.7356589005335252
2025	32378	1 0	0.1259500578149017	0.4786187468528364	0.8526686890379347
2025	32379	1 0	0	0.5	1
2025	32380	1 0.04279989397248135	0.1822244212053804	0.3818031682569241	0.7423786410240252
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2025	32452	1 0	0.5	1	1
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2025	32461	1 0	0.5	1	1
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2025	32611	1 0	0.5	1	1
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2025	32613	1 0	0.5	1	1
2025	32614	1 0	0.5	1	1
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2025	33230	1 0	0.5	1	1
2025	33231	1 0	0.5	1	1
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2025	90828	2 0	0.4948483077318613	0.9777813372640645	0.9829330295322032
2025	90828	3 0.07555653612513519	0.3465855420089473	0.6215185035884998	0.8504894977046877
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2025	90832	2 0.1650633471224162	0.6519831325561636	0.9722341405816515	0.9853143551479041
2025	90832	3 0.07895223601130508	0.308927577000608	0.5666785850260959	0.836703244036793
2025	91379	2 0.229043505549474	0.6380871372093392	0.896194067460136	0.9871504358002707
2025	91380	2 0.2007510416917093	0.5984763042764731	0.8808354932840988	0.983110230699335

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2025	91382	1	0	0.4790962310430869	0.9631335440857751	0.9840373130426882
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2025	91383	1	0	0	0.4880807966976732	0.9880807966976732
2025	91383	2	0.07269765883171408	0.288331333647872	0.5791138325361953	0.8634801577200375
2025	91384	1	0.3230374607044366	0.6342574147621984	0.7969101124257514	0.9856901583679895
2025	91384	2	0.04435960267854022	0.2366713649216102	0.5408752370272218	0.8485634747841518
2025	91385	2	0.1386354362808388	0.4303164238079682	0.6885346030229842	0.8968536154958549
2025	91387	2	0.04057200190226834	0.2316375268423822	0.5110387592495327	0.8199732343094188
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2025	91407	1	0	0.2383185981343787	0.7229315786509168	0.9846129805165382
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2025	91452	2	0.0686884355584631	0.3027991139871875	0.6226035928405077	0.8884929144117834
2025	91453	2	0.07188683305593063	0.3089683189676964	0.5944581542449336	0.8573766683331678
2025	91454	2	0.09003772489743911	0.305550674637929	0.5355923922621706	0.8200794425216806
2025	91455	2	0.05573900913352653	0.2933033355987975	0.6593677395560631	0.9218034130907922
2025	91456	2	0.01435596711391141	0.2136950775906039	0.5946834146325927	0.8953443041559003
2025	91457	2	0.0467570342436342	0.2923973107446586	0.6630313360821959	0.9173910595811715
2025	91458	2	0.009517170575181921	0.1644932037348978	0.4759529655822773	0.8209769324225614
2025	91459	2	0.08309318454609854	0.3457466111178709	0.6706864097488829	0.9080329831771106
2025	91460	1	0	0.487529292227542	0.9804327066682768	0.9929034144407348
2025	91460	2	0.04525007258072988	0.2822382392671463	0.6151729664085365	0.87818479972212
2025	91461	2	0.01479416759930913	0.1580471671412262	0.421622862945794	0.7783696834038769
2025	91461	3	0.08326079430547301	0.3369220569844054	0.6225159063587877	0.8688546436798553
2025	91462	2	0.2104167013362464	0.6233674897899091	0.9129507884536627	1
2025	91463	2	0.003635612710346847	0.1189610706929166	0.4108716342136076	0.7955461762310378
2025	91463	3	0.06459268532496432	0.2816949283184015	0.5765385310497809	0.8594362880563438
2025	91464	1	0	0	0.2393221898054221	0.7393221898054221
2025	91464	2	0.0831017853116427	0.3164480854497965	0.5992716768848896	0.8659253767467358
2025	91465	3	0.162516882821548	0.4903689289052932	0.804694968688134	0.9768429226043888
2025	91466	2	0.05768976533666853	0.2972364724452575	0.6131055379207134	0.8735588308121245
2025	91467	2	0.08099057101644946	0.3615579172464859	0.6621659180182565	0.8815985717882201
2025	91468	2	0.08771498150522733	0.3108258706131374	0.5692463194942631	0.846135430386353
2025	91469	2	0.05969113808845372	0.2828559294705089	0.5846178136188072	0.861453022236752
2025	91470	2	0.02519899407136045	0.2755608600614025	0.6870651561226437	0.9367032901326017
2025	91471	2	0.1073293161726941	0.4299077475435937	0.7764701335247264	0.9538917021538268
2025	91472	1	0.1272578825800171	0.4456564812014353	0.7730519546425776	0.9546533560211594
2025	91473	1	0.1265576797969353	0.481855411906113	0.8309075702953168	0.9756098381861391
2025	91474	1	0.1509912979712575	0.5177758424876213	0.8553639641282886	0.9885794196119249
2025	91475	1	0.06009918956770388	0.2853689523068886	0.6003356139643097	0.8750658512251248
2025	91476	1	0.06222522182113849	0.2810836934831885	0.5945628852839526	0.8757044136219027
2025	91477	1	0.0762803744542993	0.3847421446782305	0.7730003776564452	0.9645386074325141
2025	91477	2	0.1076946993320229	0.3844394297676504	0.6712915689926765	0.8945468385570489
2025	91478	1	0.06780304695562284	0.2854424071069822	0.5711873556682422	0.8535479955168828
2025	91479	1	0.06444648133000963	0.2592290979918281	0.5220313604523863	0.8272487437905678
2025	91480	1	0.0631859078636105	0.2728255934024979	0.5629311564447788	0.8532914709058914
2025	91482	2	0.110276096796618	0.4393415848620928	0.7835775033685664	0.9545120153030916
2025	91483	2	0.09927230641857143	0.3712447068332315	0.7199548339587133	0.9479824335440532
2025	91484	2	0.1127046571288723	0.4204942039624929	0.740214556277311	0.9324250094436904
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2025	91486	1	0.0369201699532718	0.1922591258163388	0.4561660970410031	0.8008271411779362
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2025	91491	2	0.09539921705468107	0.3132719069770766	0.5735453626739516	0.8556726727515561
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2025	91493	3	0.1376212129290572	0.4910304106612725	0.8187385500524869	0.9653293523202714
2025	91494	2	0.06188078575253386	0.2629106908567715	0.5240050102316068	0.8229751051273693
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2025	91496	1	0	0	0.4875634818330447	0.9875634818330448
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2025	91497	2	0.04417169253932629	0.2400874057325731	0.5602414704107357	0.8643257572174888
2025	91498	1	0.1609620291448125	0.3015677779824758	0.4554587299649966	0.8148529811273334
2025	91498	2	0.07722350942574169	0.2836045148814492	0.5543242080849318	0.8479432026292242
2025	91499	2	0.09406548757588468	0.3272325566744164	0.6044193539679658	0.8712522848694341
2025	91499	3	0.09381409723337819	0.32774046777405827	0.59827055174068626	0.8643441808656581
2025	91500	1	0.2849777861278682	0.6971523017790534	0.9006905609299874	0.9885160452788022
2025	91500	2	0.09601272641977449	0.3297018128115366	0.6052460673430791	0.8715569809513168
2025	91501	1	0.09852184144661752	0.2417149468629306	0.4596977698956334	0.8165046644793204
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2025	91503	2	0.1249342812477634	0.4036758392908172	0.6757887409675225	0.8970471829244688
2025	91504	2	0.01365164070985075	0.108324145698922	0.3935938426397054	0.7989213376506341
2025	91504	3	0.1016512938790175	0.3602002837375937	0.6398599919503791	0.8813110020918029
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2025	91506	1	0	0.06524577371111401	0.329423407236476	0.7641776335253619
2025	91507	1	0	0	0.1329573841377637	0.6329573841377636
2025	91508	1	0	0	0	0.5
2025	91509	1	0	0	0	0.5
2025	91510	1	0	0	0	0.5
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2025	91513	2	0.02807105580750813	0.1665674000635674	0.4451992789216128	0.8067029346655535
2025	91514	4	0.1328726455662615	0.4820635981851043	0.8391938339698911	0.9900028813510483
2025	91515	2	0.02677463112798928	0.1508871395126089	0.3797358001068955	0.7556232917222759
2025	91516	2	0.02109942677274074	0.1794785658147854	0.4443733408775613	0.7859942018355166
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2025	91521	2	0.06399241719401183	0.28815141638283	0.5768450889089977	0.8526860897201795
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2025	91524	2	0.151942222486911	0.4809839077250225	0.79553328909108417	0.9664915954345104
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2025	91526	2	0.1459419542173239	0.4783717174322139	0.7794122745588384	0.9469825113439484
2025	91527	1	0.09425711486247335	0.1883893361716653	0.1856753629210823	0.5915431416118904
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2025	91536	1	0.05652601050977335	0.241381057512955	0.5639737235791886	0.8791186765176665
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2025	91538	2	0.04620710278364731	0.2875251903840747	0.6734525928370303	0.932134505236603
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2025	91542	1	0.1073529530616765	0.2501674955682493	0.3495374228476342	0.7067228803410615
2025	91543	2	0.07744194821651396	0.3789393170955639	0.732645225436632	0.931147856557564
2025	91544	1	0.005849089123418916	0.06242668316021605	0.2350916588793497	0.6785140648425525
2025	91545	1	0.01112141267450723	0.1185084237726872	0.3259763129889332	0.7185893018907532
2025	91546	1	0.04654941391415701	0.3242179380802743	0.7212030818268762	0.9435345576607589
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2025	91576	1	0	0.4971281829411721	0.9971281829411721	1
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2025	91601	2	0.03990607502902027	0.2696320105458772	0.5750810229253486	0.8453550874084916
2025	91602	2	0.05389592861862991	0.2691394675232037	0.5330040194818402	0.8177604805772664
2025	91603	3	0.1076840543811245	0.4841519988765509	0.8764679444954264	1
2025	91604	2	0.02850213431488763	0.197893595050752	0.4433816731110045	0.7739902123751401
2025	91604	3	0.04699643629190137	0.2666943242546129	0.5444945936759459	0.8247967057132344
2025	91605	2	0.1012065306277368	0.4140239182262777	0.7928087255997877	0.9799913380012468
2025	91606	2	0.07941820960271812	0.3897773263803543	0.7770924773731224	0.9667333605954861
2025	91607	2	0.1045800368241211	0.3886574615936762	0.6514013466483379	0.8673239218787829
2025	91607	3	0.0850393767535913	0.3515729048825375	0.6170884325228707	0.8505549043939246
2025	91608	3	0.0673753810192037	0.2827294218088307	0.5475796831223809	0.8322256423327541
2025	91609	3	0.05674305163738247	0.2797186534289851	0.4968177131757322	0.7738421113841295
2025	91610	2	0	0	0.4773050798112284	0.9773050798112284
2025	91610	3	0.07664436225608284	0.3017726289969777	0.5437862056874091	0.8186579389465143
2025	91611	2	7.276542804311448E-4	0.4855072081150004	0.9637728537983988	0.9789932999638296
2025	91611	3	0.09937401637856991	0.3281468020236299	0.5524361363703107	0.8236633507252509
2025	91612	3	0.194161765207845	0.571340031353993	0.8372186927152282	0.9600404265690802
2025	91613	3	0.1246686565084997	0.4628469962040775	0.8042752305658429	0.9660968908702651
2025	91614	3	0.1046246732672442	0.439283244639341	0.7630190975331994	0.9283605261611025
2025	91615	3	0.1300096967696699	0.3354521824781288	0.4758462680489559	0.770403782340497
2025	91616	3	0.04408171408278516	0.1648700885291785	0.3552980412885885	0.7345096668421951
2025	91617	3	0.1501129091756215	0.4817943503706265	0.8029916109495259	0.9713101697545209
2025	91618	3	0	0.05388006449167238	0.4266942937270313	0.8728142292353589
2025	91619	3	0.121403132873833	0.3098863389280024	0.6462077626394713	0.9577245565853021
2025	91620	3	0.2493547495885725	0.5648560407527496	0.7117283215813505	0.8962270304171733
2025	91620	4	0.1022324474302991	0.3408752254050278	0.5714405517971779	0.8327977738224492
2025	91621	2	0	0.4832620843656102	0.9529482618363794	0.9696861774707692
2025	91621	3	0.07003873652852183	0.258229484966765	0.4555422955588178	0.7673515471205745
2025	91622	3	0.04938182739833913	0.2582291789881489	0.5085577646075119	0.7997104040177021
2025	91623	2	0.006400958362891063	0.4958905214134404	0.9705656381473129	0.9810760750967636
2025	91623	3	0.1195054825438583	0.3601650923962797	0.5610492574920867	0.8203896476396653
2025	91624	3	0.08171501987451468	0.3613097123215094	0.6941305947766696	0.9145359023296749
2025	91625	3	0.0661820430998622	0.3376937039268686	0.6571170796021284	0.885605418775122
2025	91626	3	0.04655932678454983	0.1893559309195992	0.3917307919047756	0.7489341877697262
2025	91627	3	0.1390434523347961	0.5621571677955208	0.9231137154607247	1
2025	91628	3	0.08021747442112781	0.2963797559357152	0.550132559380708	0.8339702778661207
2025	91629	3	0.08391301655236955	0.3203474333958484	0.5900675121229777	0.8536330952794988
2025	91630	3	0.09808569830324843	0.3796510880840255	0.6718918077660188	0.8903264179852417
2025	91631	3	0.08563062457556236	0.3077661263028609	0.5752449620577651	0.8531094603304665
2025	91643	1	0.2416103194837108	0.4675123839981751	0.701096685394815	0.9751946208803506
2025	91643	3	0.07643174805513936	0.3018377808235719	0.5552633520614816	0.829857319293049
2025	91644	3	0.1593315403582813	0.394335518882973	0.548329075294304	0.8133250967696122
2025	91650	1	0	0	0.2353676613955606	0.7353676613955606
2025	91650	2	0.04309917202403163	0.2208255371092821	0.5053316129044441	0.8276052478191935
2025	91651	2	0.1251526561281861	0.376717558277759	0.6154980279735713	0.8639331258239985
2025	91652	2	0.1632807477953851	0.5146074753876211	0.8312578397019281	0.9799311121096921
2025	91653	2	0.1361631023617766	0.4489284719800587	0.766687640798829	0.9539222711805468
2025	91654	1	0	0	0.08507105608739396	0.585071056087394
2025	91654	2	0.05421477862001872	0.2467170708799845	0.5402943699583618	0.8477920776983959
2025	91679	1	0.02490425002863511	0.2565248300250411	0.6811219935850966	0.9495014135886907
2025	91680	1	0.1312902162026788	0.3582244666753985	0.5693592243514106	0.8424249738786909
2025	91681	1	0.08412234934498858	0.2399769015213902	0.3980780283625827	0.742223476186181

2025	91682	1	0.08927539952846325	0.4115865342253969	0.749256761127313	0.9269456264303793
2025	91683	1	0.03073336510303065	0.1823643859321748	0.3955859482947375	0.7439549274655933
2025	91725	1	0	0	0	0.5
2025	91725	2	0.04254573699777686	0.2319837429348756	0.482308348905392	0.7928703429682933
2025	91735	2	0.06621267271617959	0.3016120874179109	0.569710465239672	0.8343110505379406
2025	91736	2	0.1182204503734905	0.3084307748475062	0.5772745965147472	0.8870642720407316
2025	91789	1	0.00803740317513485	0.00803740317513485	0	0.5
2025	91789	2	0.1312295519354654	0.3946444311469816	0.6426824028306448	0.8792675236191287
2025	91803	1	0.02702781957888706	0.2388270385026142	0.5710376591307323	0.8592384402070052
2025	91804	1	0.1167657431241307	0.4564660677321112	0.832387900382515	0.9926875757745345
2025	91805	1	0.05413739028220149	0.319140981563358	0.6925243345925964	0.9275207433114399
2025	91806	1	0.1435065210849001	0.4940481453536345	0.8253107784065394	0.9747691541378051
2025	91807	1	0.03687883141667636	0.1920208847820144	0.4218079389554892	0.766658855901511
2025	91808	2	0.06164176813769595	0.3640497134833606	0.7712642266771474	0.9688562813314828
2025	91809	1	0.0309550714197907	0.188049065520252	0.4617649142400684	0.8046709201396072
2025	91810	1	0.09271431218595672	0.2838571481778761	0.5237752277242833	0.832632391732364
2025	91811	1	0	0.1224186338064282	0.6224186338064281	1
2025	91812	1	0.1990655182234637	0.478280898825155	0.7434529858328789	0.9642376041738271
2025	91813	1	0	0.184220465415562	0.6302224695521239	0.9460020041365619
2025	91814	1	0	0.5	1	1
2025	91815	1	0	0.03457651830419467	0.2034331670755648	0.6688566487713701
2025	91816	1	0	0.05817241422159497	0.3885242050466505	0.8303517908250555
2025	91817	1	0.09753063056918004	0.2931022250817665	0.4973794095601366	0.8018078150475502
2025	91818	1	0.003875610331160961	0.2346796685944026	0.6746062218076307	0.9438021635443892
2025	91819	1	0.04071312138777616	0.4257442558357386	0.7644866775012873	0.8794555430533247
2025	91820	1	0	0.3010558708255476	0.763464954198439	0.9624090833728914
2025	91821	1	0.004841287261981742	0.02088286338473377	0.1132304964434219	0.59718892032067
2025	91822	1	0	0.2711625270588244	0.6546629282691929	0.8835004012103684
2025	91823	1	0.01862039779940755	0.09124153744600444	0.3940893852169484	0.8214682455703515
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2025	91827	1	0	0	0.1771621558521919	0.6771621558521919
2025	91828	1	0	0.2473562139276944	0.6762107003816505	0.9288544864539562
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2025	91830	1	0	0.1159601605842812	0.3488089344776418	0.7328487738933606
2025	91831	1	0	0.2886282454055604	0.7292490427929262	0.9406207973873658
2025	91832	1	0.01320650680050378	0.1262345190727041	0.3494553747870891	0.7364273625148887
2025	91833	1	0.009803358156298403	0.1875249644213642	0.5494620954230279	0.8717404891579622
2025	91834	1	0	0	0.2057553049187958	0.7057553049187958
2025	91835	1	0	0.161194617137742	0.362509949347465	0.701315332209723
2025	91836	1	0	0.2228767795778106	0.6311978399607265	0.908321060382916
2025	91837	1	0	0.4085910652920962	0.9085910652920962	1
2025	91838	1	0	0.2365522946528536	0.6579273720811257	0.9213750774282722
2025	91849	1	0.08594867397632949	0.2233332534305998	0.4034190426175703	0.7660344631633
2025	91855	1	0	0.5	1	1
2025	91856	1	0	0.5	1	1
2025	91857	1	0.06477872349377722	0.3376991256343521	0.6983559277379504	0.9254355255973755
2025	91859	1	0	0.2192307680288463	0.4288461520432694	0.7096153840144231
2025	91862	1	0	0.1723948286399481	0.563317098112567	0.8909222694726189
2025	91869	1	0.03121101778404817	0.2214438038414351	0.5456570133923717	0.8554242273349848
2025	91870	1	0.04773003385741537	0.2406595761675093	0.5415410696922057	0.8486115273821118
2025	91871	1	0.03808303842783145	0.2459903004215002	0.566269398041082	0.8583621360474132
2025	91872	1	0.04389802120177222	0.2285087897425402	0.5026041224279653	0.8179933538871973
2025	91873	1	0.03211043692664739	0.2014810449691563	0.4885830999147379	0.819212491872229
2025	91874	1	0.04431660108549834	0.2525686038581393	0.5349517079005699	0.826699705127929
2025	91875	1	0.04300576358137809	0.2086812216459315	0.459812657862926	0.7941371997983726
2025	91876	1	0.09971214675088813	0.4363905099341717	0.8191186835313629	0.9824403203480794
2025	91900	1	0.03318243454279402	0.2146348478476298	0.4515688910589642	0.7701164777541284
2025	91901	1	0.06186339843765609	0.2324907619590498	0.4391725063415057	0.768545142820112
2025	91902	1	0.04325181034165804	0.1073202172449261	0.2629973835536622	0.6989289766503941
2025	91902	2	0.09605740066289287	0.298183796719269	0.4729056021602538	0.7707792061038776
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2025	91904	1	0.1095993031239621	0.2923993298059925	0.4388805683957435	0.7560805417137131
2025	91905	1	0.07041849783304627	0.2760867571909321	0.466919904386945	0.7612516450290592
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2025	91907	1	0.04292311562251328	0.241528118511693	0.4567716758718096	0.7581666729826299
2025	91907	2	0.07632133438417932	0.2728908902749768	0.4625802549698133	0.7660106990790159
2025	91908	1	0.1746970935349446	0.5089213039686767	0.7727720427158675	0.9385478322821355
2025	91909	1	0.1435286551139147	0.4674043650611921	0.7643010640513507	0.9404253541040732
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2025	91985	2	0.02691325785086612	0.1854757104784813	0.4329759263440109	0.7744134737163957
2025	91986	2	0.02758351177137725	0.1648743601806138	0.4354395784262804	0.7981487300170438
2025	91987	2	0.01666804313098785	0.1599708140179107	0.540493900139282	0.8971911292523592