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- ☒ A. Welcome to Bang...

☐ B. Take Angle, Giv...

☐ C. Odd Subset XOR



☒ D. Can you predict...


☐ E. Cycle of life


☐ F. Lost in bracket...


☒ G. Sum in summer

☐ H. I think, theref...
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 Standings

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 Resources

D. Can you predict?

Limits 1s, 512 MB

You are provided with data from an online advertising campaign where each ad impression is scored by a model based on how likely it is that a user will click on the ad. The score is a real number which can range from negative infinity to positive infinity. Your task is to convert these scores into a probability that represents the likelihood of a user clicking on the ad.

Given a list of scores from an advertising model, convert each score into a probability between 0 and 1. Your program should output the probabilities with high precision, as they directly influence budgeting decisions in the advertising campaign.

Input

- The first line contains an integer T , the number of test cases. $1 < T < 100$
- Each test case starts with an integer N , the number of scores in that test case. $1 < N < 100$
- This is followed by N real numbers R , each representing a model score. $-100000 < R < 100000$

Output

- For each score in each test case, output the corresponding probability.
- Each value should be on a new line.

Sample

Input	Output
2	0.268941421
3	0.500000000
-1.0 0.0 1.0	0.731058579
2	0.952574127
3.0 5.0	0.993307149

The probability should be calculated with a function that maps any real number to a value between 0 and 1. Your answer should be correct to at least 5 digits after the decimal point.

Submit

Choose a programming language, select your solution file, and click on Submit.

Python Python 3.12

Choose File No fi...osen

Up to 150 kB.

Submit

Open Editor

Clarifications

Request

No clarifications yet