



Bangladesh Artificial Intelligence Olympiad (Preliminary)

2:06:12

- O Dashboard
- 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
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- (i) Announcements
- ? Clarifications
- **Standings**
- ✓ Submissions
- 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

- ullet The first line contains an integer T , the number of test cases. 1 < T < 100
- ullet Each test case starts with an integer N, the number of scores in that test case. 1 < N < 100
- ullet 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.

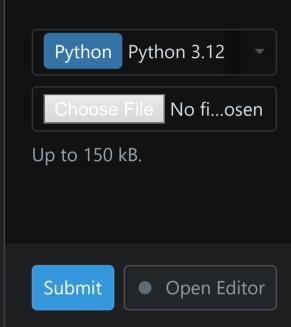
Sample

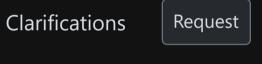
Input	Output
2	0.268941421
3	0.500000000
-1.0 0.0 1.0	0.731058579
2	0.952574127
3.0 5.0	0.993307149

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.





No clarifications yet