

Description

Solution

Submissions

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Python

Autocomplete

i {} ↶ ↷ ⌂

1230. Toss Strange Coins

Medium 89 3 Add to List Share

You have some coins. The i -th coin has a probability $prob[i]$ of facing heads when tossed.

Return the probability that the number of coins facing heads equals $target$ if you toss every coin exactly once.

Example 1:

Input: $prob = [0.4], target = 1$

Output: 0.40000

Example 2:

Input: $prob = [0.5, 0.5, 0.5, 0.5, 0.5], target = 0$

Output: 0.03125

Constraints:

- $1 \leq prob.length \leq 1000$
- $0 \leq prob[i] \leq 1$
- $0 \leq target \leq prob.length$
- Answers will be accepted as correct if they are within 10^{-5} of the correct answer.

Accepted 3,827 Submissions 8,021

Seen this question in a real interview before?

Yes

No

Contributor

Problems

✕ Pick One

< Prev

1230/1444

Next >

Console

Contribute i

▶ Run Code

Submit

```
1 class Solution(object):
2     def probabilityOfHeads(self, prob, target):
3         """
4         :type prob: List[float]
5         :type target: int
6         :rtype: float
7         """
8
```