

IEMCO (IEM Coding Olympiad) Level 2 LIVE



Time left: 00:15:53Problems My Submissions Hall of Fame Analytics Judge

← Problems / Miss Penny

Miss Penny

Max. Marks: 20

Penny loves collecting coins. She has a coin of every denomination made between the years 1920 and 2015. She has gotten this name Penny because of her crazy addiction of coin collection. She wants to collect each and every different coin she sees and she can do anything for it. Now, her friend Leonard has offered her his exclusive collection of coins of the 19th century. Penny cannot control her excitement but she knows Leonard wouldn't do it for free and she would have to pay him.

There are C kinds of coins Leonard has to offer. Leonard is going to sell the coins in "power packs", each of which contains N coins of different kinds. There are many possible combinations for a power pack where no coin is repeated. When Penny pays for one pack, she will get any of the possible combinations with equal probability. Penny has decided to buy packs one by one, until she owns all the C kinds. What is the expected (average) number of power packs Penny needs to buy?

Input Format: The first line of input gives the number of cases, T. T test cases follow, each consisting of a line containing C and N.

Output Format: For each test case, output a single number X where X is the expected number of power packs Penny needs to buy. Any answer with a relative or absolute error at most 10-5 will be accepted.

Constraints: $1 \le T \le 100 \ 1 \le N \le C \le 40$

Sample Input (Plaintext Link)

2

2 1

3 2

Sample Output (Plaintext Link)

- 3.0000000
- 2.5000000

Time Limit: 5.0 sec(s) for each input file.

Memory Limit: 256 MB Source Limit: 1024 KB

Marking Scheme: Marks are awarded when all the testcases pass.

Allowed languages: C, CPP, CLOJURE, CSHARP, GO, HASKELL, JAVA, JAVASCRIPT, JAVASCRIPT NODE, LISP,

OBJECTIVEC, PASCAL, PERL, PHP, PYTHON, RUBY, R, RUST, SCALA

Load Code Editor

You can submit code after loading editor.

Your Rating:

COMMENTS (6) 2

SORT BY: Relevance▼



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Arpan Mukherjee an hour ago

Any answer with a relative or absolute error at most 10-5 will be accepted. But printf("%.5lf\n") is giving WA.only %.7lf is giving AC. please clarify.

▲ 0 votes • Reply • Message • Permalink



NIKHIL NIHAL 5 Moderator @ Edited 39 minutes ago

Yes. It has been changed to -7. A small glitch. Got it corrected.

▲ 0 votes • Reply • Message • Permalink



Deep Banerjee an hour ago

what is the precision required ??

▲ 0 votes • Reply • Message • Permalink



everythingisfair 29 minutes ago

it is accepting .8lf.. but the question demands .7lf?? how is this possible??

▲ 0 votes • Reply • Message • Permalink



Vaibhav Gupta @ Edited 5 minutes ago

I have been penalized four times for submitting with %.7lf. I checked my code 10 times

and I kept submitting. I checked the comments and realized Submit accepts only %.8If and compile accepts only %.7If. Please fix it.

▲ 0 votes • Reply • Message • Permalink



NIKHIL NIHAL 5 Moderator a few seconds ago

Don't worry for .7lf Problem , we will see to it.

▲ 0 votes • Reply • Message • Permalink

RECENT SUBMISSIONS			£
DEVELOPERS	RESULT	LANGUAGE	
Keshav R		0.100966	C++
Kumar Am		0.100674	С
Chinmay		0.101619	С
Nileshwa		0.0	C++
Chinmay		0.100993	С
Kumar Am		0.101002	С
Chandan		0.100629	С
Chinmay		0.100942	С
Chandan		0.100928	С
Keshav R		0.100743	С
Naman Om		0.100921	С
Pranchul		0.100875	С
Chinmay		0.0	С
piyush r		0.101008	С

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