Coding Arena

<C*deVita/>
the TCS Coding Contest

Change Default Language

Time Left
00 hr 17 min 19 sec

Rules & Regulations
Launch Code Editor
Notifications
Status messages

Problem : Last Digit

Statement :

Compute the last digit of the following sequence

$$S = \sum_{i=0,2^i \le n}^{\infty} \sum_{j=0}^{n} 2^{2^i+2j}$$

i.e. Summation of F(n) from i = 0 to 2^i &tl;= n, where F(n) is the summation of 2^(2^i+2j) Where j varies from 0 to n

Input Format:

Single integer representing n

Output Format:

Last digit of the number S

Constraints:

1. **0<=n<=10^17**

Sample Input and Output

SNo.	Input	Output
1	3	0
2	10	8

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

Note:

For C and C++, return type of main() function should be int.

Submit Answer

I , **YOKESH** confirm that the answer submitted is my own.
I would like to provide attribution to the following sources.

Select Language ▼

Select File

Browse... Submit