GE23131-Programming Using C-2024

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Started	Sunday, 12 January 2025, 11:32 PM
Completed	Sunday, 12 January 2025, 11:40 PM
Duration	8 mins 17 secs

Question **1**

Correct

Marked out of 1.00

Flag question

You are a bank account hacker. Initially you have 1 rupee in your account, and you want exac
You wrote two hacks, first hack can multiply the amount of money you own by 10, while the s
These hacks can be used any number of time. Can you achieve the desired amount ***N*** using t

Constraints:

1<=T<=100

1<=N<=10^12

Input

· The test case contains a single integer N.

Output

For each test case, print a single line containing the string "1" if you can make exactly N rupe

SAMPLE INPUT

1

SAMPLE OUTPUT

1

SAMPLE INPUT

2

SAMPLE OUTPUT

0

Answer: (penalty regime: 0 %)

	Test	Expected	Got	
	printf("%d", myFunc(1))	1	1	
	printf("%d", myFunc(2))	0	0	
	printf("%d", myFunc(10))	1	1	
	printf("%d", myFunc(25))	0	0	
	printf("%d", myFunc(200))	1	1	

Passed all tests!

Question **2**

Correct

Marked out of 1.00

Flag question

Find the number of ways that a given integer, ***X***, can be expressed as the sum of the ***N^th^*** pow numbers.

For example, if ***X = 13*** and ***N = 2***, we have to find all combinations of unique squares adding is $2^2 + 3^2$.

Function Description

Complete the powerSum function in the editor below. It should return an integer that represe combinations.

powerSum has the following parameter(s):

X: the integer to sum to

N: the integer power to raise numbers to

Input Format

The first line contains an integer ***X***.

The second line contains an integer ***N***.

Constraints

1 ≤ X ≤ 1000

2 ≤ N ≤ 10

Output Format

Output a single integer, the number of possible combinations calculated.

Sample Input 0

10

Sample Output 0

1

Explanation 0

If ***X = 10*** and ***N = 2***, we need to find the number of ways that ***10*** can be represented as the s
numbers.

$10 = 1^2 + 3^2$

This is the only way in which ***10*** can be expressed as the sum of unique squares.

Sample Input 1

100
2

Sample Output 1

3

Explanation 1

$100 = (10^2) = (6^2 + 8^2) = (1^2 + 3^2 + 4^2 + 5^2 + 7^2)$

Sample Input 2

100
3

Sample Output 2

1

Explanation 2

100 can be expressed as the sum of the cubes of ***1, 2, 3, 4***.
(1 + 8 + 27 + 64 = 100). There is no other way to express ***100*** as the sum of cubes.

Answer: (penalty regime: 0 %)

	Test	Expected	Got	
	`printf("%d", powerSum(10, 1, 2))`	1	1	

Passed all tests!

Save the state of the flags