GE23131-Programming Using C-2024



Correct Question ⟨ Flag question 1.00 Marked out of

Started Monday, 13 January 2025, 10:15 AM Status Finished

Duration 16 mins 24 secs

Completed Monday, 13 January 2025, 10:31 AM

account. You wrote two hacks, first hack can multiply the amount of money you own by 10, while the second can multiply it by 20. These hacks can be used any number of time. Can you achieve the desired amount N using these You are a bank account hacker. Initially you have 1 rupee in your account, and you want exactly **N** rupees in your

Constraints:

1<=N<=10^12 1<=T<=100

Input

The test case contains a single integer N.

Output

SAMPLE INPUT

For each test case, print a single line containing the string "1" if you can make exactly N rupees or "0" otherwise.

SAMPLE OUTPUT

SAMPLE INPUT

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Answer: (penalty regime: 0 %)

0

```
6 /*/
7 int myFunc(int n)
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                                                                                              14
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16
                                                                                                                                                                                             * The function is expected to return an INTEGER.

* The function accepts INTEGER n as parameter.
                                                                                                                                                             if(n==1)
                                                                                                                           if(n%10==0)
              return 0;
                                                                     if(n%20==0)
                                                                                                                                          return 1;
                                                                                                            if(myFunc(n/10))
                                                     if(myFunc(n/20))
                                                                                            return 1;
                                    return 1;
```

Test

Expected Got

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1	6	29	28	27	26	25	24	
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1	12			••			return 1;	
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printf("%d", myFunc(2))	printf("%d",	Test	· · · · · · · · · · · · · · · · · · ·
myFunc(2))	≡ y∓unc(1))		
Ø	<u> </u>	Expected Got	
0	-	Got	
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Passed all tests! V

✓ printf("%d", myFunc(260)) 1

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✓ printf("%d", myFunc(25)) 0

✓ printf("%d", syFunc(18)) 1

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> numbers. Find the number of ways that a given integer, X, can be expressed as the sum of the N^{th} powers of unique, natural

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Find the number of ways that a given integer, & can be expressed as the sum of the Nth powers of unique, natural

For example, if X = 13 and N = 2, we have to find all combinations of unique squares adding up to 13. The only solution is $2^2 \pm 3^2$.

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Function Bescription

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

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sembinations.

Complete the powerSum function in the editor below. It should return an integer that represents the number of possible

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Sample Input 0

10

2

Sample Output 0

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Explanation 0

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

$$10 = 1^2 + 3^2$$

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

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4 * The function is expected to return an INTEGER. 5 * The function accepts following parameters:	1. //*2 Complete the 'powerSum' function below.	Reset answer	Answer: (penalty regime: 0 %)	(1 + 8 + 27 + 64 = 100). There is no other way to express 100 as the sum of cubes.	100 can be expressed as the sum of the cubes of 1, 2, 3, 4.	Explanation 2		Sample Output 2	3	Cambre input &

(1 + 8 + 27 + 64 = 100). There is no other way to express 100 as the sum of cubes.

Answer: (penalty regime: 0 %)

Reset answer

```
#include<math.h>
                                                                                                                                                     int powerSum(int x, int m, int n){
                                                                                                                                                                                                                                  #include<stdio.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                          * Complete the 'powerSum' function below.
                                                                                                                                                                                                                                                                                                                                                              * The function accepts following parameters:
                                                                                                                                                                                                                                                                                                                                                                                    * The function is expected to return an INTEGER.
                                                                                                                                                                                                                                                                                                              2. INTEGER n
                                                                                                                                                                                                                                                                                                                                    1. INTEGER X
                                                                         if(x<0||pow(m,n)>x)
                                                                                                     return 1;
                                                                                                                               if(x==0)
                                                   return 0;
return powerSum(x -pow(m,n),m+1,n)+powerSum(x, m+1,n);
```

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printf("%d", powerSum(10, 1, 2))	Test
powerSum(10, 1, 2)) 1	
1, 2))	
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1	Got
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Passed all tests! ~

Finish review