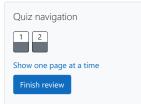
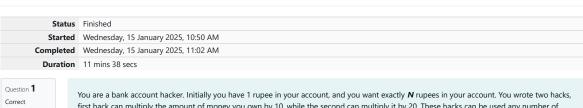
GE23131-Programming Using C-2024





Marked out of Flag question

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 ${\it N}$ using these hacks.

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 rupees or "0" otherwise.

SAMPLE INPUT

SAMPLE OUTPUT

SAMPLE INPUT

SAMPLE OUTPUT

Answer: (penalty regime: 0 %)

```
Reset answer
           * Complete the 'myFunc' function below.
          * The function is expected to return an INTEGER.
* The function accepts INTEGER n as parameter.
         int myFunc(int n)
                if(n==1)
return 1;
if(n%10==0)
 10
11
12
13
14
15
16
17
18
                 if(myFunc(n/10)==1)
                 return 1;
if(n%20==0)
                 if(myFunc(n/20)==1)
return 1;
return 0;
 20
21
```

	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

Frag question

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

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 $2^2 + 3^2$.

Function Description

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

2

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 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.

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 %)
```

```
Reset answer
```

	Test	Expected	Got	
~	<pre>printf("%d", powerSum(10, 1, 2))</pre>	1	1	~

Passed all tests! 🗸