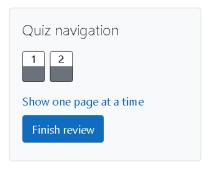
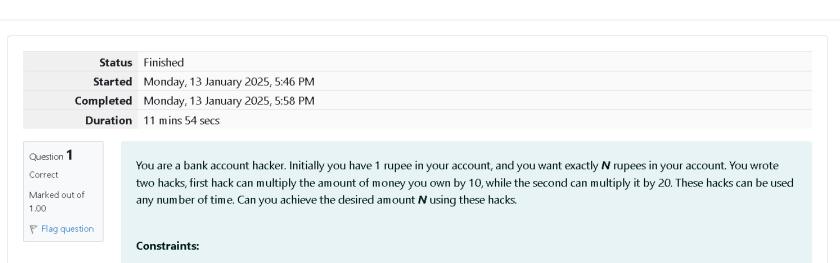
GE23131-Programming Using C-2024







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

· 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

1

SAMPLE OUTPUT

SAMPLE INPUT 2 SAMPLE OUTPUT 0

Answer: (penalty regime: 0 %)

Reset answer

```
1 + /*
    * Complete the 'myFunc' function below.
2
3
   * The function is expected to return an INTEGER.
    * The function accepts INTEGER n as parameter.
5
6
7
8 int myFunc(int n)
9 ₹ {
     return n==1 || n%10==0;
11 }
12
```

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

~	printf("%d", myFunc(2))	Ø	ø	~
~	printf("%d", myFunc(10))	1	1	~
~	printf("%d", myFunc(25))	Ø	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, \mathbf{X} , can be expressed as the sum of the \mathbf{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**.

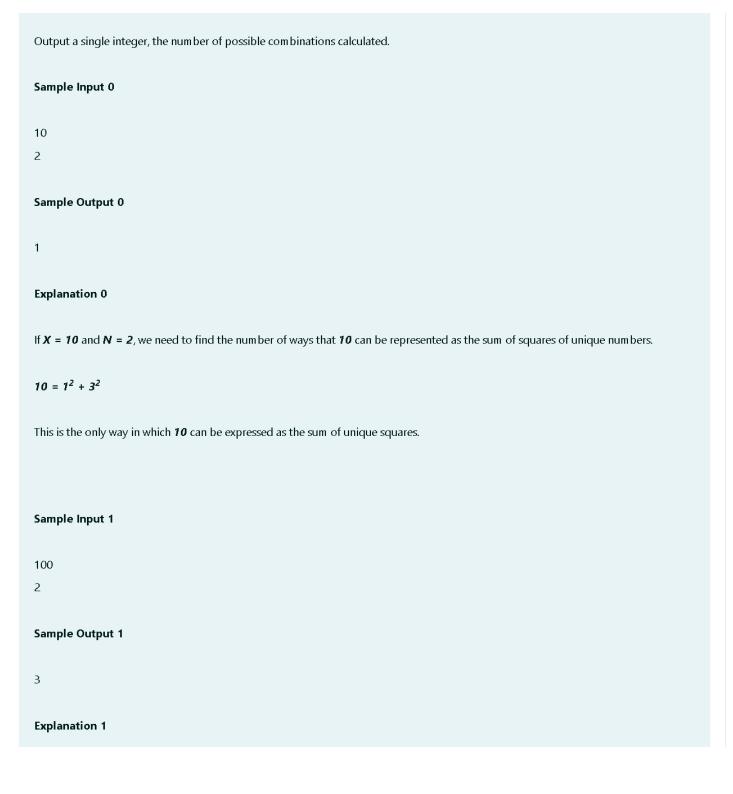
The second line contains an integer N.

Constraints

 $1 \le X \le 1000$

 $2 \le N \le 10$

Output Format



```
100 = (10²) = (6² + 8²) = (1² + 3² + 4² + 5² + 7²)

Sample Input 2

100

3

Sample Output 2
```

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

```
1 - /*
    * Complete the 'powerSum' function below.
3
    * The function is expected to return an INTEGER.
4
    * The function accepts following parameters:
    * 1. INTEGER x
7
    * 2. INTEGER n
    */
9 #include<math.h>
10
   int powerSum(int x, int m, int n)
11 + {
12
10
         THE h =how(m2112)?
14 •
        if(p==x){
15
            return 1;
16
17 •
         if(p>x){
18
            return 0;
19
20
         return powerSum(x-p,m+1,n) + powerSum(x,m+1,n);
21 }
```

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

Passed all tests! 🗸

Finish review