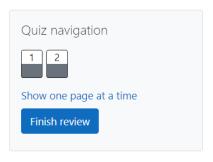
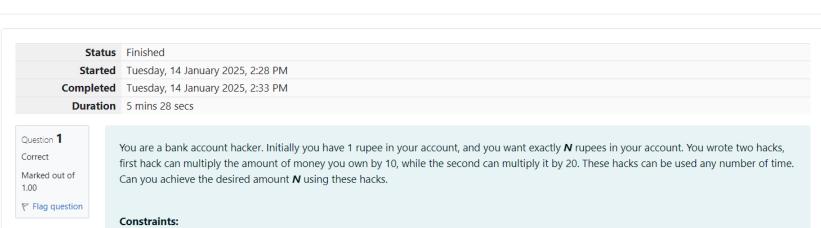
GE23131-Programming Using C-2024





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

1

SAMPLE OUTPUT

1

```
SAMPLE INPUT
2
SAMPLE OUTPUT
0
Answer: (penalty regime: 0 %)
  Reset answer
         * Complete the 'myFunc' function below.
   3
         * The function is expected to return an INTEGER.
* The function accepts INTEGER n as parameter.
    5
    6
        int myFunc(int n)
    8
    9 🔻 {
            return n==1||n%10==0;
   10
   11
   12
```

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

Daccad all tactel

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 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

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

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
```

```
2
     * Complete the 'powerSum' function below.
 3
     \ensuremath{^{*}} The function is expected to return an INTEGER.
 4
     * The function accepts following parameters:
 5
 6
     * 1. INTEGER x
     * 2. INTEGER n
 7
 8
     */
    #include<math.h>
9
10
    int powerSum(int x, int m, int n)
11 v {
12
       int p =pow(m,n);
13 ▼
       if(p==x){
14
       return 1;
15
      if(p>x){
16
17
        return 0;
18
       return powerSum(x-p,m+1,n)+powerSum(x,m+1,n);
19
20 }
```

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

Passed all tests! <

Finish review