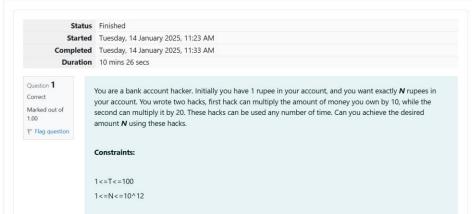
GE23131-Programming Using C-2024





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
          1 int myFunc(int n)
          2 ₹ {
                if(n==1)
          3
                {
return 1;
          4 ₹
          5
          6
                if(n<1)
          7
          8 🔻
                  return 0;
          9
         10
              if(n%10==0&& myFunc(n/10))
{
    return 1;
         11
         12 ₹
         13
         14
         15
                if(n%20==0&& myFunc(n/20))
                17
                         return 1;
                18
                19
                       return 0;
                20 }
                21
                             Expected Got
                ✓ printf("%d", myFunc(10)) 1
                ✓ printf("%d", myFunc(25)) 0 0 ✓
                ✓ printf("%d", myFunc(200)) 1 1 ✓
               Passed all tests! 🗸
Question 2
               Find the number of ways that a given integer, \boldsymbol{X}, can be expressed as the sum of the \boldsymbol{N}^{th} powers of unique,
```

.....

Marked out of 1.00

Flag question

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 \boldsymbol{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

2

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
 #include(math.h>
int powerSum(int x,int m,int n)
   3 ₹ {
   4
           int power=pow(m,n);
   5
           if(power>x)
   6 ,
   7
              return 0;
   8
          if(power==x)
   9
  10 ,
          {
  11
               return 1;
  12
  13
           return powerSum(x-power,m+1,n)+powerSum(x,m+1,n);
  14 }
```

