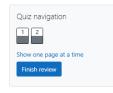
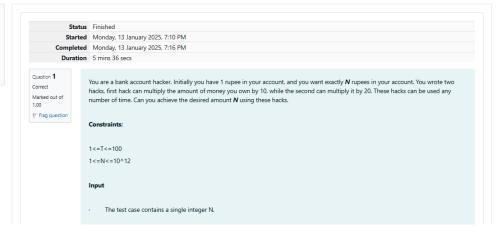
# GE23131-Programming Using C-2024





```
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

2

SAMPLE OUTPUT

0

Answer: (penalty regime: 0 %)
Reset answer
```



	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	~

Question 2
Correct
Marked out of 1.00
F Flag question

Find the number of ways that a given integer, **X**, can be expressed as the sum of the **N**<sup>th</sup> 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  $\emph{\textbf{X}}$ .

The second line contains an integer  $\emph{\textbf{N}}.$ 

### 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  ${\it 10}$  can be expressed as the sum of unique squares.

```
Sample Input 1

100
2

Sample Output 1

3

Explanation 1

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
```

```
Test Expected Got

/ printf("%d", powerSum(10, 1, 2)) 1 1 /

Passed all tests! /

Finish review
```