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Status Finished

Started Monday, 13 january 2005, 1108 PM

Distration

Briting 38 states

Output

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.

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10 = 12 + 32
This is the only way in which 10 can be expressed as the sum of unique squares.
Sample Input 1
100
Sample Output 1
Explanation 1
100 = (10^2) = (6^2 + 8^2) = (7^2 + 3^2 + 4^2 + 5^2 + 7^2)
Sample Input 2
100
Sample Output 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.
 Find the number of ways that a given integer, \textbf{X}, can be expressed as the sum of the \textbf{N}^{\text{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.
 1 s X s 1000
 2 ≤ N ≤ 10
 Output a single integer, the number of possible combinations calculated.
 Sample Input 0
 10
 Sample Output 0
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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.

Finish review