You are a bank account hacker, Initially you have 1 rupses in your account, and you want exactly N rupses in your account. You wrote two hacks, first hack can multiply the amount of money you own by 10, while the second can multiply it by 20. These hacks can be used any number of time. Can you achieve the desired amount N using these hacks. 1<=T<=100 1<=N<=10^12 Input · The test case contains a single integer N. For each test case, print a single line containing the string "1" if you can make exactly N rupees or "0" otherwise. 1 SAMPLE OUTPUT SAMPLE INPUT 2 SAMPLE OUTPUT

Answer: (penalty regime: 0 %)

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		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	~
Passed all tests! 🗸					

Find the number of ways that a given integer, X, can be expressed as the sum of the Nth 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):

The first line contains an integer X.

The second line contains an integer N.

Constraints

1 ≤ X ≤ 1000 2 ≤ N ≤ 10

Output Format

Output a single integer, the number of possible combinations calculated.

Sample Input 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

This is the only way in which 10 can be expressed as the sum of unique squares.

Sample Input 1

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Sample Output 1

100 - (10<sup>2</sup>) - g<sup>2</sup> - g<sup>2</sup>) - (1<sup>2</sup> - g<sup>2</sup> - g<sup></sup>
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