## Sum of Squares

We are interested in how many different sequences of $N$ non negative integers there are that have the sum of their squares less than $S$. Note that the sequence $(1,2)$ is different from the sequence $(2,1)$.

## Input

The input consists of only one line with two integers $N(0<N<30)$ and $S(S<100)$.

## Output

A single integer representing the number of different sequences that have the sum of their squares less than S .

## Example

Input:
14
Output:
2

