



Problem H
Triples

Input File: H.in

Output File: standard output

Program Source File: H.c, H.cpp, H.java

Mr. A invites you to solve the following problem:

“Let be m and n two positive integers, $5 \leq m \leq 100$, $2 \leq n \leq 100$. Consider the following sets of triples:

$$T_{m,j} = \{(x, y, z) \in \mathbb{N}^3 \mid x \leq y \leq z \leq m \text{ and } x^j + y^j = z^j\}, \quad j = 2 \dots n$$

where $\mathbb{N}$ is the set of nonnegative integers ($\mathbb{N} = \{0, 1, 2, \dots\}$).

The problem asks you to compute the sum $S_{m,n}$:

$$S_{m,n} = \sum_{j=2}^n \text{card}(T_{m,j})$$

where $\text{card}(T_{m,j})$ is the number of elements of the set $T_{m,j}$.”

Input

The input file contains a single test. The first line of the input file contains the value of m and the second line contains the value of n .

Output

The result will be written to standard output.

Sample input	Sample output
85 95	8128