$A^2 + \cdots + B^2$

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

$$N = \sum_{k=A}^{B} k^2$$

Input

The only line contains two integer numbers A and B ($-10^{10^6} \leq A \leq B \leq 10^{10^6}$), separated by a space.

Output

Output single line containing digital root[1] of the number N.

Example

standard input	standard output
1 2	5

[1]The digital root of a number is the number obtained by adding all the digits, then adding the digits of that number, and then continuing until a single-digit number is reached.