

The movement of any object follows the physics:

$$x = v_0t + \frac{1}{2}at^2$$

where v_0 is the initial speed, x is the displacement, t is the time, and a is the acceleration. If an object gets its speed v at time t , then how long is the displacement of this object after four times of that time?

Input

The input has several cases and ends with EOF. Each case contains two integers, which in turn denote the values of v and t .

Output

For each case, output the displacement mentioned above. Each output should be in separate line.

Sample Input

2 3
4 7

Sample Output

48
224