You are standing at a magical well. It has two positive integers written on it: a and b. Each time you cast a magic marble into the well, it gives you a \* b dollars and then both a and bincrease by 1. You have n magic marbles. How much money will you make?

**Example**

For a = 1, b = 2 and n = 2, the output should be  
magicalWell(a, b, n) = 8.

You will cast your first marble and get $2, after which the numbers will become 2 and 3. When you cast your second marble, the well will give you $6. Overall, you'll make $8. So, the output is8.

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] integer a**

*Constraints:*  
1 ≤ a ≤ 2000.

* **[input] integer b**

*Constraints:*  
1 ≤ b ≤ 2000.

* **[input] integer n**

The number of magic marbles in your possession, a non-negative integer.

*Constraints:*  
0 ≤ n ≤ 5.

* **[output] integer**

<https://codefights.com/arcade/code-arcade/loop-tunnel/LbuWRHnMoJH9SAo4o>

static int magicalWell(int a, int b, int n)

{

int sum = 0;

for (int i = 0; i < n; i++)

{

sum += (a \* b);

a++;

b++;

}

return sum;

}