**Path**

Max Score: 12

Hiroto cannot see in his dark room. He left his jack-o’-lantern on the opposite corner of his room (he is on the top left corner, and his jack-o’-lantern is on the bottom right), which is m metres wide and n metres deep. Each step, he can only move one metre right or one metre down.

Create a program to calculate the number of distinct paths he can take to his jack-o’-lantern.

**Input Format**

*m* (int) - the width of the room *n* (int) - the depth of the room

**Constraints**

*m* <= 35 and *n* < 35 or *m* < 35 and *n* <= 35 *Output* can be > 2^32

**Output Format**

The number of distinct paths Hiroto can take (integer).

**Sample Input 0**

3

2

**Sample Output 0**

3

**Explanation 0**

There are 3 distinct paths as the room is only 2m deep and 3m wide

**Sample Input 1**

10

8

**Sample Output 1**

11440

**Explanation 1**

As the room is now wider and longer, there are more paths as Hiroto can zig-zag in various directions before reaching his pumpkin.