Climbing Stairs

Try to solve the Climbing Stairs problem.



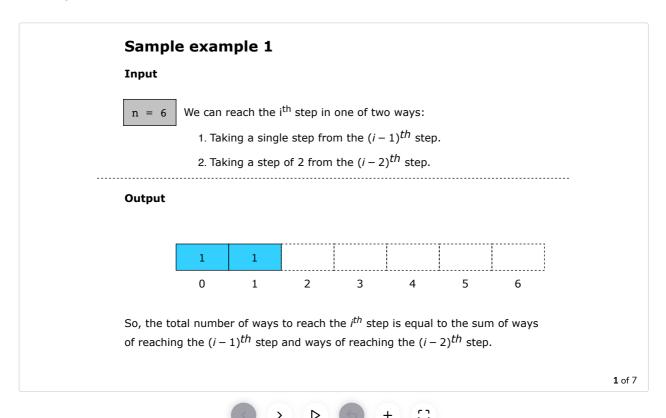
Statement

You are climbing a staircase. It takes n steps to reach the top. Each time, you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?

Constraints:

• $1 \le n \le 45$

Examples



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

?

Tτ

6

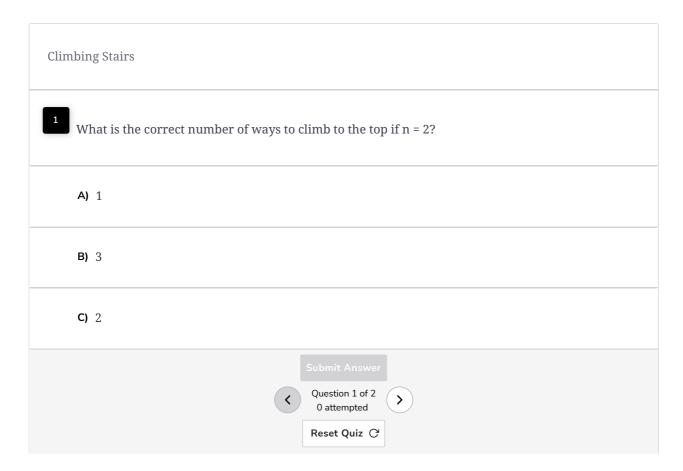
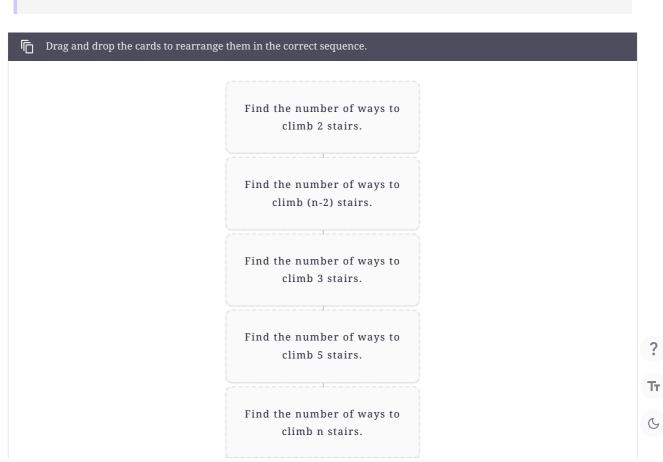


Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Note: As an additional challenge, we have intentionally hidden the solution to this puzzle.



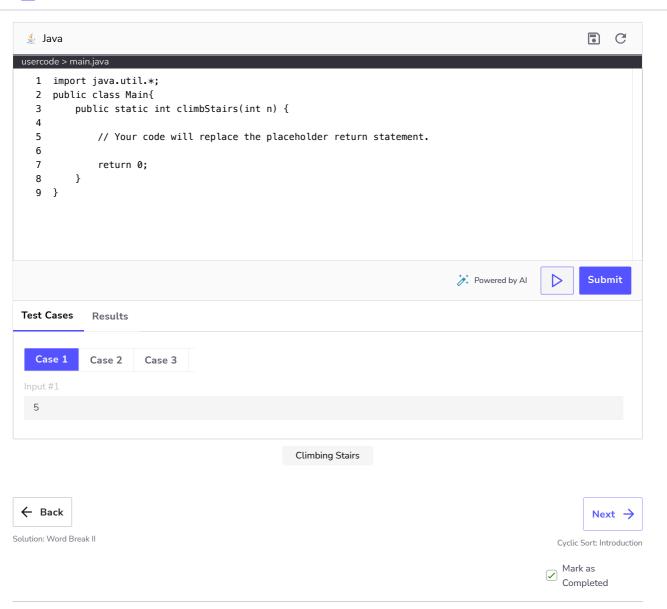


Try it yourself

Implement your solution in the following coding playground.

Note: We have left the solution to this challenge as an exercise for you. You may try to translate the

■ 2



?

Тт

C