

Description

Solution

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## 276. Paint Fence

Medium

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You are painting a fence of  $n$  posts with  $k$  different colors. You must paint the posts following these rules:

- Every post must be painted **exactly one** color.
- There **cannot** be three or more **consecutive** posts with the same color.

Given the two integers  $n$  and  $k$ , return the **number of ways** you can paint the fence.

### Example 1:



Input:  $n = 3, k = 2$

Output: 6

Explanation: All the possibilities are shown.

Note that painting all the posts red or all the posts green is invalid because there cannot be three posts in a row with the same color.

### Example 2:

Input:  $n = 1, k = 1$

Output: 1

### Example 3:

Problems

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