312. Burst Balloons

Difficulty: Hard

https://leetcode.com/problems/burst-balloons

You are given n balloons, indexed from 0 to n-1. Each balloon is painted with a number on it represented by an array nums. You are asked to burst all the balloons.

If you burst the i^{th} balloon, you will get nums[i-1] * nums[i] * nums[i+1] coins. If i-1 or i+1 goes out of bounds of the array, then treat it as if there is a balloon with a 1 painted on it.

Return the maximum coins you can collect by bursting the balloons wisely.

Example 1:

Example 2:

Input: nums = [1,5]
Output: 10

Constraints:

```
• n == nums.length
```

• 1 <= n <= 300

• 0 <= nums[i] <= 100