# 312. Burst Balloons

# Description

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