Contest Problems (/problemset/all/) Mock(/interview/) Contest Discuss(/discuss/) Storedata=eyJ1cmwiOiAiaHR0cHM6Ly9sZWV0Y29kZS5jb20vZGlzY3Vzcy9nZW

5687. Maximum Score from Performing Multiplication Operations

My Submissions (/contest/weekly-contest-229/problems/maximum-score-from-performing-multiplication-operations/submissions/)

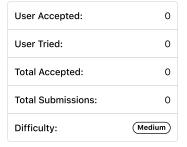
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You are given two integer arrays nums and multipliers of size n and m respectively, where $n \ge m$. The arrays are 1-indexed.

You begin with a score of 0 . You want to perform exactly m operations. On the ith operation (1-indexed), you will:

- Choose one integer $\,x\,$ from either the start or the end of the array $\,$ nums $\,$.
- Add multipliers[i] * x to your score.
- Remove x from the array nums.

Return the $\it maximum$ score after performing $\it m$ operations.



Example 1:

```
Input: nums = [1,2,3], multipliers = [3,2,1]
Output: 14
Explanation: An optimal solution is as follows:
- Choose from the end, [1,2,3], adding 3 * 3 = 9 to the score.
- Choose from the end, [1,2], adding 2 * 2 = 4 to the score.
- Choose from the end, [1], adding 1 * 1 = 1 to the score.
The total score is 9 + 4 + 1 = 14.
```

Example 2:

```
Input: nums = [-5,-3,-3,-2,7,1], multipliers = [-10,-5,3,4,6]
Output: 102
Explanation: An optimal solution is as follows:
    Choose from the start, [-5,-3,-3,-2,7,1], adding -5 * -10 = 50 to the score.
    Choose from the start, [-3,-3,-2,7,1], adding -3 * -5 = 15 to the score.
    Choose from the start, [-3,-2,7,1], adding -3 * 3 = -9 to the score.
    Choose from the end, [-2,7,1], adding 1 * 4 = 4 to the score.
    Choose from the end, [-2,7,1], adding 7 * 6 = 42 to the score.
The total score is 50 + 15 - 9 + 4 + 42 = 102.
```

Constraints:

```
    n == nums.length
    m == multipliers.length
    1 <= m <= 10<sup>3</sup>
    m <= n <= 10<sup>5</sup>
    -1000 <= nums[i], multipliers[i] <= 1000</li>
```

```
JavaScript

1 /**
2 * @param {number[]} nums
3 * @param {number[]} multipliers
4 * @return {number}
5 */
6  var maximumScore = function(nums, multipliers) {
7
8 };
```