1788. Maximize the Beauty of the Garden



There is a garden of n flowers, and each flower has an integer beauty value. The flowers are arranged in a line. You are given an integer array flowers of size n and each flowers [i] represents the beauty of the ith flower.

A garden is valid if it meets these conditions:

- The garden has at least two flowers.
- The first and the last flower of the garden have the same beauty value.

As the appointed gardener, you have the ability to **remove** any (possibly none) flowers from the garden. You want to remove flowers in a way that makes the remaining garden **valid**. The beauty of the garden is the sum of the beauty of all the remaining flowers.

Return the maximum possible beauty of some valid garden after you have removed any (possibly none) flowers.

Example 1:

```
Input: flowers = [1,2,3,1,2]
Output: 8
Explanation: You can produce the valid garden [2,3,1,2] to have a total beauty of 2+3+1+2=8.
```

Example 2:

```
Input: flowers = [100,1,1,-3,1]
Output: 3
Explanation: You can produce the valid garden [1,1,1] to have a total beauty of 1+1+1=3.
```

Example 3:

```
Input: flowers = [-1,-2,0,-1]
Output: -2
Explanation: You can produce the valid garden [-1,-1] to have a total beauty of -1 + -1 = -2.
```

Constraints:

- 2 <= flowers.length <= 10⁵
- $-10^4 <= flowers[i] <= 10^4$

Seen this question in a real interview before? 1/5

• It is possible to create a valid garden by removing some (possibly none) flowers.

Yes No

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Companies

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Q Hint 1

Amazon 2

Consider every possible beauty and its first and last index in flowers.

♀ Hint 2
 Remove all flowers with negative beauties within those indices.

Discussion (3)