3040. Maximum Number of Operations With the Same Score II

Description

Given an array of integers called `nums`, you can perform **any** of the following operation while `nums` contains **at least** `2` elements:

- Choose the first two elements of `nums` and delete them.
- Choose the last two elements of `nums` and delete them.
- Choose the first and the last elements of `nums` and delete them.

The **score** of the operation is the sum of the deleted elements.

Your task is to find the **maximum** number of operations that can be performed, such that **all operations have the same score**.

Return *the **maximum** number of operations possible that satisfy the condition mentioned above*.

Example 1:

```
Input: nums = [3,2,1,2,3,4]
Output: 3
Explanation: We perform the following operations:
- Delete the first two elements, with score 3 + 2 = 5, nums = [1,2,3,4].
- Delete the first and the last elements, with score 1 + 4 = 5, nums = [2,3].
- Delete the first and the last elements, with score 2 + 3 = 5, nums = [].
We are unable to perform any more operations as nums is empty.
```

Example 2:

```
Input: nums = [3,2,6,1,4]
Output: 2
Explanation: We perform the following operations:
- Delete the first two elements, with score 3 + 2 = 5, nums = [6,1,4].
- Delete the last two elements, with score 1 + 4 = 5, nums = [6].
It can be proven that we can perform at most 2 operations.
```

Constraints:

- `2 <= nums.length <= 2000`
- `1 <= nums[i] <= 1000`