

976. Largest Perimeter Triangle

Given an integer array `nums`, return *the largest perimeter of a triangle with a non-zero area, formed from three of these lengths*. If it is impossible to form any triangle of a non-zero area, return `0`.

Example 1:

Input: `nums = [2,1,2]`

Output: 5

Example 2:

Input: `nums = [1,2,1]`

Output: 0

Example 3:

Input: `nums = [3,2,3,4]`

Output: 10

Example 4:

Input: `nums = [3,6,2,3]`

Output: 8

```
def largestPerimeter(self, nums: List[int]) -> int:
    nums = sorted(nums, reverse=True)
    for i in range(len(nums)-2):
        if nums[i] < nums[i+1] + nums[i+2]:
            return nums[i] + nums[i+1] + nums[i+2]
    return 0
```