976. Largest Perimeter Triangle

20 June 2022 09:20 AM

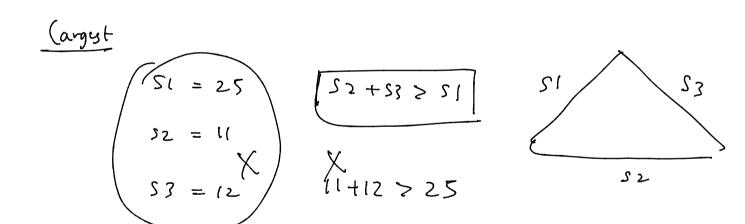
Given an integer array $\ nums$, return the largest perimeter of a triangle with a non-zero area, formed from three of these lengths. If it is impossible to form any triangle of a non-zero area, return $\ 0$.

Example 1:

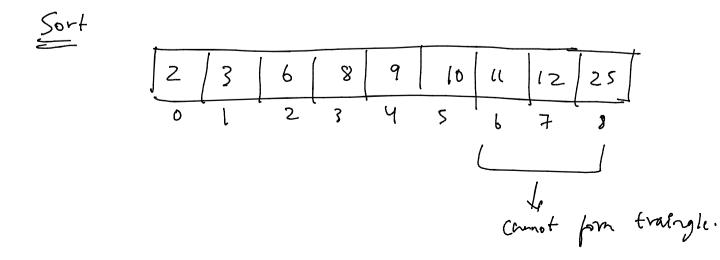
Input: nums = [2,1,2]
Output: 5

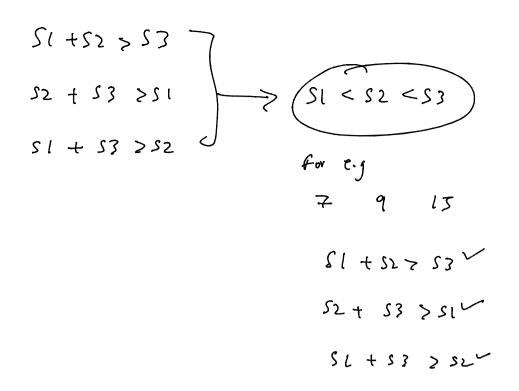
Example 2:

Input: nums = [1,2,1]
Output: 0



This doesn't coork, so we sort the array





$$\frac{11 + 10 \ge 12}{21 \ge (2)}$$
on the largest peri = $(1 + 10 + 12 = 33)$

Taka

```
class Solution {
   public int largestPerimeter(int[] nums) {
        Arrays.sort(nums);
        for(int i = nums.length - 1; i >= 2; i--){
            if(nums[i - 1] + nums[i - 2] > nums[i]){
                return nums[i] + nums[i - 1] + nums[i - 2];
            }
        }
        return 0;
}
```

C + t

```
class Solution {
public:
    int largestPerimeter(vector<int>& nums) {
        sort(nums.begin(), nums.end());

        for(int i = nums.size() - 1; i >= 2; i--){
            if(nums[i - 1] + nums[i - 2] > nums[i]){
                return nums[i] + nums[i - 1] + nums[i - 2];
            }
        }
        return 0;
    }
}
```