```java
class Solution {
    public int triangleNumber(int[] nums) {
        Arrays.sort(nums);
        int cnt = 0;
        for (int last = nums.length-1; last > 1; last--) {
            int left = 0, right = last - 1;
            while (left < right) {
                if (nums[right] + nums[left] > nums[last]) {
                    cnt += right - left;
                    right--;
                } else {
                    left++;
                }
            }
        }
        return cnt;
    }
}
```

Given an array consists of non-negative integers, your task is to count the number of triplets chosen from the array that can make triangles if we take them as side lengths of a triangle.
Example 1:

Input: [2,2,3,4]

Output: 3

Explanation:

Valid combinations are:

2,3,4 (using the first 2)

2,3,4 (using the second 2)

2,2,3