1. https://leetcode.com/problems/longest-continuous-subarray-with-absolute-diff-less-than-or-equal-to-limit/

Given an array of integers nums and an integer limit, return the size of the longest nonempty subarray such that the absolute difference between any two elements of this subarray is less than or equal to limit.

Example 1:

```
Input: nums = [10,1,2,4,7,2], limit = 5
Output: 4
Explanation: The subarray [2,4,7,2] is the longest since the maximum absolute diff is |2-7| = 5 <= 5.

Example 2:
Input: nums = [4,2,2,2,4,4,2,2], limit = 0
Output: 3</pre>
```

2.https://leetcode.com/problems/count-number-of-teams/

There are n soldiers standing in a line. Each soldier is assigned a unique rating value.

You have to form a team of 3 soldiers amongst them under the following rules:

- Choose 3 soldiers with index (i, j, k) with rating (rating[i], rating[j], rating[k]).
- A team is valid if: (rating[i] < rating[j] < rating[k]) or (rating[i] > rating[j] > rating[k]) where (0 <= i < j < k < n).

Return the number of teams you can form given the conditions. (soldiers can be part of multiple teams).

Example 1:

```
Input: rating = [2,5,3,4,1]
Output: 3
Explanation: We can form three teams given the conditions. (2,3,4), (5,4,1), (5,3,1).
```

Example 2:

```
Input: rating = [2,1,3]
Output: 0
```

Explanation: We can't form any team given the conditions.

3. https://leetcode.com/problems/maximum-product-subarray/

Given an integer array nums, find the contiguous subarray within an array (containing at least one number) which has the largest product.

Example 1:

```
Input: [2,3,-2,4]
Output: 6
```

Explanation: [2,3] has the largest product 6.

Example 2:

```
Input: [-2,0,-1]
```

Output: 0

Explanation: The result cannot be 2, because [-2,-1] is not a subarray.