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 **non-empty** 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

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.