

Thema der Aufgabe:

Count number of teams

Aufgabenbeschreibung:

Using the C++ language, have the int function `countTeams(vector<int>)` takes the vector of teams parameter being passed and return the number of all possible 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 $(0 \leq i < j < k < n)$.

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

Input: rating = [2,5,3,4,1]

Solution: 3 Teams: (2,3,4), (5,4,1), (5,3,1)

Input: rating = [2,1,3]

Solution: 0 Teams can be formed

Eingabe:

- [1, 2, 3, 4]

Ausgabe:

- 4 Teams: (1, 2, 3), (2, 3, 4), (4, 3, 2), (3, 2, 1)

Beispiel:

- Siehe Eingabe/Ausgabe!

	Erstellt	Geprüft und freigegeben	Datei:
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