**Problem Name:** Count good triplets

**Topics:**

**Companies:**

**Level:** Easy

**Language:** C++

**Problem Statement**:

**Input Format:**

**Output Format:**

**Constraints:**

**Examples:**

**Brute force Solution:**

**Explanation:**

Step1. Intialise a varialble lks with initial value 0 as an answer.

Step2. Run 3 nested For loop with intial value i=0, j=i+1, k=j+1 and final value i<arr.size()-2 , j=<arr.size()-1, k<arr.size().

Step3. Store them into x y z as shown in code.

Step4. Check the Given Condition as from the problem Statement. If condition TRUE then lks+=1

Step5. Return the lks.

**Code:**

**Time Complexity**: O(N^3)

**Space Complexity:** O(1)

**Optimized Solution:**

**Explanation:** The only quick optimization we can think of this if first condition with  
abs(arr[i]-arr[j])<=a is not satisfied we do not proceed with triplet checking.

**Code:**

**Time Complexity**: O(N^3)

**Space Complexity:** O(1)