Problem Link:

<https://leetcode.com/problems/valid-triangle-number/description/?envType=daily-question&envId=2025-09-26>

Solution:

class Solution {

public:

int triangleNumber(vector<int>& nums) {

int n = nums.size();

int c = 0;

sort(nums.begin(), nums.end());

for(int i = n - 1; i >= 2; --i)

{

int l = 0, r = i - 1;

while(l < r)

{

if(nums[l] + nums[r] > nums[i])

{

c += (r - l);

r--;

}

else

{

l++;

}

}

}

return c;

}

};