Problem Link:

<https://leetcode.com/problems/maximum-value-of-an-ordered-triplet-i/?envType=daily-question&envId=2025-04-02>

Solution:

class Solution {

public:

long long maximumTripletValue(vector<int>& nums) {

int n = nums.size();

if (n < 3) return 0;

vector<long long> l(n, 0), r(n, 0);

l[0] = LLONG\_MIN;

for(int i = 1; i < n; ++i)

{

l[i] = max(l[i - 1], (long long)nums[i - 1]);

}

r[n - 1] = LLONG\_MIN;

for(int i = n - 2; i >= 0; --i)

{

r[i] = max(r[i + 1], (long long)nums[i + 1]);

}

long long m = 0;

for(int j = 1; j < n - 1; ++j)

{

if(l[j] != LLONG\_MIN && r[j] != LLONG\_MIN)

{

long long value = (l[j] - nums[j]) \* r[j];

m = max(m, value);

}

}

return m;

}

};