Problem Link:

<https://leetcode.com/problems/maximum-value-of-an-ordered-triplet-ii/?envType=daily-question&envId=2025-04-03>

Solution:

class Solution {

public:

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

int n = nums.size();

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

l[0] = nums[0];

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

{

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

}

r[n - 1] = nums[n - 1];

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

{

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

}

long long m = 0;

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

{

long long left = l[j - 1];

long long right = r[j + 1];

m = max(m, (left - (long long)nums[j]) \* right);

}

return m;

}

};