Problem Link:

<https://leetcode.com/problems/median-of-two-sorted-arrays/?envType=daily-question&envId=2025-06-07>

Solution:

class Solution {

public:

double findMedianSortedArrays(vector<int>& nums1, vector<int>& nums2) {

if(nums1.size() > nums2.size())

{

return findMedianSortedArrays(nums2, nums1);

}

int m = nums1.size();

int n = nums2.size();

int t = (m + n + 1) / 2;

int l = 0, r = m;

while(l <= r) {

int i = l + (r - l) / 2;

int j = t - i;

int n1l = (i == 0) ? INT\_MIN : nums1[i - 1];

int n1r = (i == m) ? INT\_MAX : nums1[i];

int n2l = (j == 0) ? INT\_MIN : nums2[j - 1];

int n2r = (j == n) ? INT\_MAX : nums2[j];

if(n1l <= n2r && n2l <= n1r)

{

if((m + n) % 2 == 1)

{

return max(n1l, n2l);

}

else

{

return (max(n1l, n2l) + min(n1r, n2r)) / 2.0;

}

}

else if(n1l > n2r)

{

r = i - 1;

}

else

{

l = i + 1;

}

}

return 0.0;

}

};