**PROBLEM STATEMENT**:

Given two arrays, write a function to compute their intersection.

**Example 1:**

**Input:** nums1 = [1,2,2,1], nums2 = [2,2]

**Output:** [2,2]

**Example 2:**

**Input:** nums1 = [4,9,5], nums2 = [9,4,9,8,4]

**Output:** [4,9]

**CODE:**

class Solution {

public:

vector<int> intersect(vector<int>& nums1, vector<int>& nums2) {

vector<int> res;

int i=0,j=0;

int n1=nums1.size(),n2=nums2.size();

sort(nums1.begin(),nums1.end());

sort(nums2.begin(),nums2.end());

while(i<n1 && j<n2)

{

if(nums1[i]==nums2[j])

{

res.push\_back(nums1[i]);

i++;j++;

}

else if(nums1[i]<nums2[j])

i++;

else

j++;

}

return res;

}

};