**Maximum activities**

#include<bits/stdc++.h>

bool compare(const std::pair<int, std::pair<int, int>>& a, const std::pair<int, std::pair<int, int>>& b) {

return a.first < b.first;

}

int maximumActivities(vector<int> &start, vector<int> &finish) {

// Write your code here.

vector<pair<int,pair<int,int>>> v;

for(int i=0; i<start.size(); i++){

int st = start[i];

int en = finish[i];

v.push\_back({en,{st,i}});

}

std::sort(v.begin(), v.end(), compare);

int count = 1;

int prev = v[0].first;

for(int i=1; i<start.size(); i++){

int st = v[i].second.first;

int en = v[i].first;

int ind = v[i].second.second;

if (st >= prev) {

count++;

prev = en;

}

}

return count;

}