#include <iostream>

#include <vector>

#include <queue>

using namespace std;

pair<int,int> findMaxMinMarks(const vector<int> &marks){

priority\_queue<int> maxHeap;

priority\_queue<int , vector<int> , greater<int>> minHeap;

//pushing marks into both heaps

for(int mark : marks){

maxHeap.push(mark);

minHeap.push(mark);

}

//pop maximum mark from max heap

int maxMark = maxHeap.top();

maxHeap.pop();

//pop minimum mark from min heap

int minMark = minHeap.top();

minMark.pop();

return make\_pair(maxMark, minMark);

}

int main(){

int numStudents ;

cout << "Enter the number of students :: ";

cin >> numStudents ;

vector<int> marks(numStudents);

cout << "Enter the marks obtained by each student :: ";

for(int i=0 ; i< numStudents ; i++){

cin >> marks[i];

}

pair<int,int> result = findMaxMinMarks(marks);

cout << "Maximum mark :: " << result.first << endl;

cout << "Minimum mark :: " << result.second << endl;

return 0;

}