#include<iostream>

using namespace std;

int main()

{

//code

int n;

cin>>n;

while(n--){

int size;

cin>>size;

int \*arr = new int[size];

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

cin>>arr[i];

}

int min = arr[0], max = arr[0];

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

if(arr[i]<min)

min = arr[i];

if(arr[i]>max)

max = arr[i];

}

cout<<max<<" "<<min<<endl;

delete[]arr;

}

return 0;

}