#include<iostream>

using namespace std;

void selection(int arr[],int n)

{

int comp=0,s=0;

for (int i = 0; i < n - 1; i++)

{

int m = i;

for (int j = i + 1; j < n; j++)

{

if (arr[j] < arr[m])

{

m= j;

}

comp++;

}

int temp = arr[i];

arr[i] = arr[m];

arr[m] = temp;

s++;

}

cout << "number of comparison " << comp << endl;

cout << "number of swap" << s << endl;

cout << "sorted array" << endl;

for (int i = 0; i < n; i++)

{

cout << arr[i] << " ";

}

cout << endl;

}

int main()

{

int i,j,n,x;

cout<<"ENTER NUMBER OF ITERATION"<<endl;

cin>>x;

for(i=1;i<=x;i++)

{

cout<<"ENTER SIZE"<<endl;

cin>>n;

int arr[n];

cout<<"ENTER ELEMENTS IN ARRAY"<<endl;

for(j=0;j<n;j++)

{

cin>>arr[j];

}

selection(arr,n);

}

}