406410114   UVA299 Train Swapping

```cpp
#include <bits/stdc++.h>
using namespace std;
int main(){
        int i,j,k,test_num,n;
        cin >> test_num;
        while( test_num-- ){
                cin >>n;
                int arr[n];
                for ( i = 0;i<n;i++ )
                        cin >> arr[i];
                        long long int swap_num = 0;
                        for ( i = 0;i<n;i++ ){
                                for( j = i+1;j<n;j++ ){
                                        if ( arr[i] > arr[j] ){
                                                swap( arr[i],arr[j] );
                                                swap_num++;
                                        }//if

                                }//for

                        }//for
                        cout << "Optimal train swapping takes "<<swap_num << " swaps."<<endl;

        }//while

        return 0;
}//main()
```