một số thuật toán sắp xếp

Cặp nghịc thế

Cặp nghịc thế

FULL HOUSE

85   4   12   36

Interchen Sort

Interchen Sort

Ý tưởng

Code

```
21  for(int i=0;i<n-1;++i){
22      for(int j=i+1;j<n;++j){
23          if(a[i]>a[j]){
24              int x=a[i];
25              a[i]=a[j];
26              a[j]=x;
27          }
28      }
29  }
```

FULL HOUSE

Selection Sort

Selection Sort

Ý tưởng

Code

```
3  //selection sort
4  //sap xep chon
5  void selection(int a[], int n){
6      for(int i=0;i<n-1;++i){
7          int min = i;
8          for(int j=i+1;j<n;++j){
9              if(a[j]<a[min]) min =j;
10         }
11         int x = a[i];
12         a[i] = a[min];
13         a[min] = x;
14     }
15 }
```

FULL HOUSE

Buble Sort

Buble Sort

Ý tưởng

Code

```
//Bubble sort
//Sap xep noi bot
    for(int i=n-1;i>0;--i){
        bool swap = true;
        for(int j=0;j<i;++j){
            if(a[j]>a[j+1]){
                int c=a[j];
                a[j]=a[j+1];
                a[j+1]=c;
                swap = false;
            }
        }
        if(swap) break;
    }
```

Insertion sort

Insertion sort

Ý tưởng

Code

```
15  //Insertion Sort - Sap xep chen
16  for(int i=1;i<n;++i){
17      int j=i-1;
18      int tam=a[i];
19      while(tam<a[j]&&j>=0){
20          a[j+1]=a[j];
21          j--;
22      }
23      a[j+1]=tam;
24  }
```

FULL HOUSE