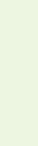




một số thuật toán sắp xếp

# Cặp nghịc thế







Cặp nghịc thế

## **Interchen Sort**





#### **Interchen Sort**

Ý tưởng

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







#### Selection Sort

Ý tưởng

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









```
Ý tưởng
```

```
//Bubble sort
//Sap xep noi bot
    for(int i=n-1;i>0;--i){
        bool swap = true;
        for(int j=0;j<i;++j){</pre>
            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

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