Sorting.?

Sorrething in any particular order.

A > 2 | 4 | 5 | 3

asc -> 2 3 7 5

desc -> 5 4 3 2 1

odd...even -> 1 5 3 2 4

Sorting.

bubble sort

selection root algo.

insertion sort 10 Bubble Sort (asc → défault)

Bubble Sort:

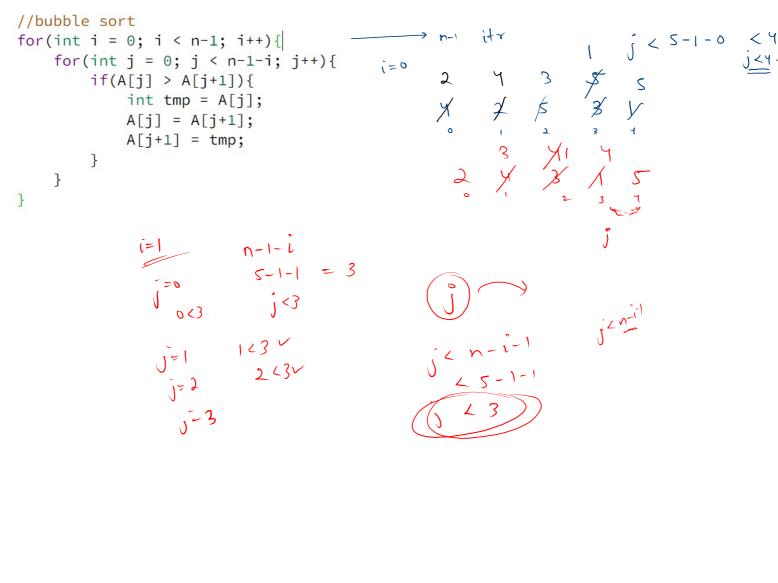
(asc.)

Bubble Sort:

(asc.)

Bubble Sort:

last



```
4 *public class Solution {
                                                        TC
5
6
       public static void main(String[] args) {
            Scanner scn = new Scanner(System.in);
8
            int n = scn.nextInt();
9
           int [] A = new int[n];
10
            for(int i = 0; i < n; i++){
                A[i] = scn.nextInt();
11 🔻
12
            //bubble sort
13
14
          for(int i = 0; i < n-1; i++){
15 🔻
               for(int j = 0; j < n-1-i; j++){</pre>
16 •
                    if(A[j] > A[j+1]){
17 ▼
                        int tmp = A[j];
18 ▼
                        A[j] = A[j+1];
19 ▼
                        A[j+1] = tmp;
                                                                1+2+3+-+n-2+n-1+n
= (n+1)
                    }
20
21
                }
22
23
            //print
            for(int i = 0; i < n; i++){
24 •
25 ▼
                System.out.print(A[i] + " ");
26
27
        }
28
   }
                                 0(1)
```

gwapping.

$$\frac{20}{6}$$

0

tmp

place smallest at it's correct position Selection Saft. minldx = 2i=0 minldx = 4 i=1 minldp=5 m'r 19x = 2 min 12x = 4

(= Y

$$\frac{1}{3} = \frac{3}{4} = \frac{3}{5}$$

$$\frac{1}{3} = \frac{4}{5} = \frac{3}{5}$$

$$\frac{3}{4} = \frac{4}{5} = \frac{3}{5}$$

$$\frac{3}{4} = \frac{4}{5} = \frac{3}{5}$$

$$\frac{3}{4} = \frac{4}{5} = \frac{3}{5}$$

minldx = 4

min/9x = 3

min ldx= 4

minldx = 4

= 0

ity:

1

2

3

1

2

3

4

i=0
$$\rightarrow$$
 correct value at ith idx

ity \rightarrow of idx \Rightarrow min ldx = 2

n=5

```
2
13
           //logic: selection sort
14
           for(int i = 0; i < n-1; i++){
15
               int minIdx = i;
16
               for(int j = i+1; j < n; j++){
17
                   if(A[j] < A[minIdx]){</pre>
18
                       minIdx = j;
19
20
                                                                          min ldx= $2
21
22
               int tmp = A[i];
                                                    C = 0
               A[i] = A[minIdx];
23
              A[minIdx] = tmp;
24
                                                       A[3] < A[2]
```

(=1

```
public static void printMin(int [] A){
    int min = A[0];
    for(int i = 1; i < A.length; i++){
        if(A[i] < min){
            min = A[i];
        }

        System.out.println(min);
}</pre>
```

```
6
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
8
           int n = scn.nextInt();
9
           int [] A = new int[n];
10
           for(int i = 0; i < n; i++){
11
               A[i] = scn.nextInt();
12
13
           //logic: selection sort
14
           for(int i = 0; i < n-1; i++){
               int minIdx = i;
15
               for(int j = i+1; j < n; j++){
16
17
                   if(A[j] < A[minIdx]){</pre>
18
                        minIdx = j;
19
20
21
               int tmp = A[i];
22
               A[i] = A[minIdx];
23
               A[minIdx] = tmp;
24
25
           //print
26
           for(int i = 0; i < n; i++){
27
               System.out.print(A[i] + " ");
28
29
       }
30 }
```