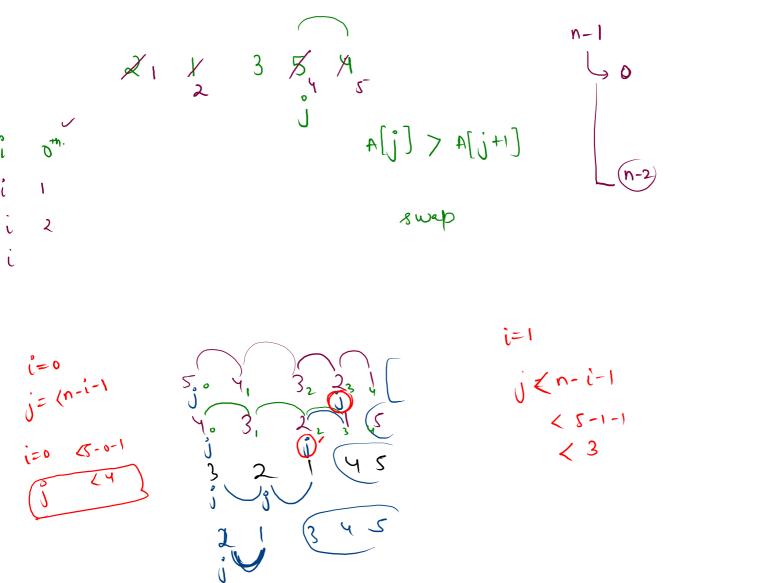
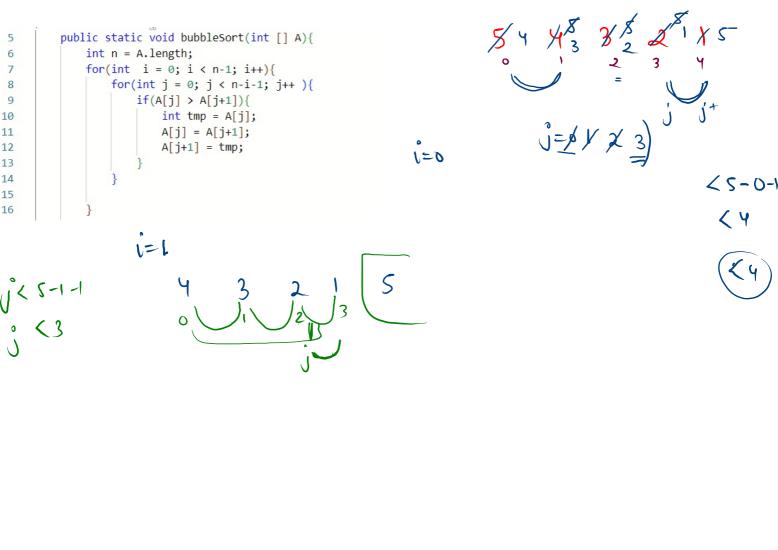
arranging comething in particular order sort asc. desc. -> even...odd = 2 4 1 3 5

basic. / fundamental. Bubble Sortsome its. - position each

Bubble Sort n-1



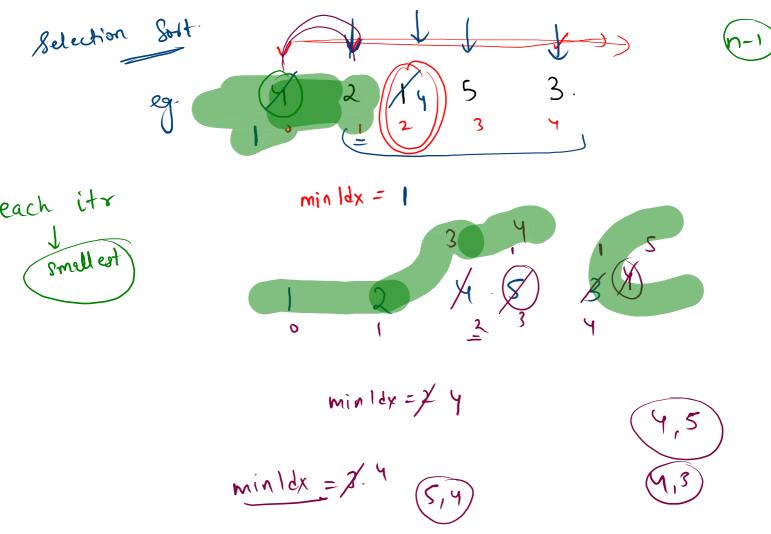


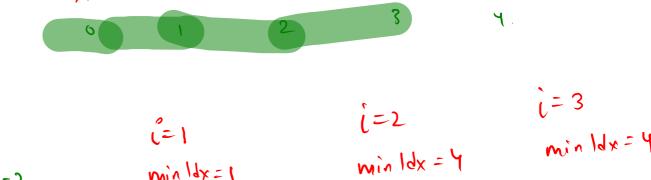
```
public class Main {
          public static void bubbleSort(int [] A){
 3
              int n = A.length;
 4
             for(int i = 0; i < n-1; i++){
 5
                  for(int j = 0; j < n-i-1; j++){
                      if(A[j] \rightarrow A[j+1]){
 7
                          int tmp = A[j];
                          A[j] = A[j+1];
                          A[j+1] = tmp;
10
11
12
13
              for(int i = 0; i < n; i++){
14
                  System.out.print(A[i] + " ");
15
16
17
          public static void main(String[] args) {
18
              Scanner scn = new Scanner(System.in);
19
20
              int n = scn.nextInt();
21
              int [] A = new int[n];
             for(int i = 0; i < n; i++){
22
                 A[i] = scn.nextInt();
23
24
              bubbleSort(A);
25
26
27
```

import java.util.*;

```
\hat{j} = 1/3
\hat{j
```

=91





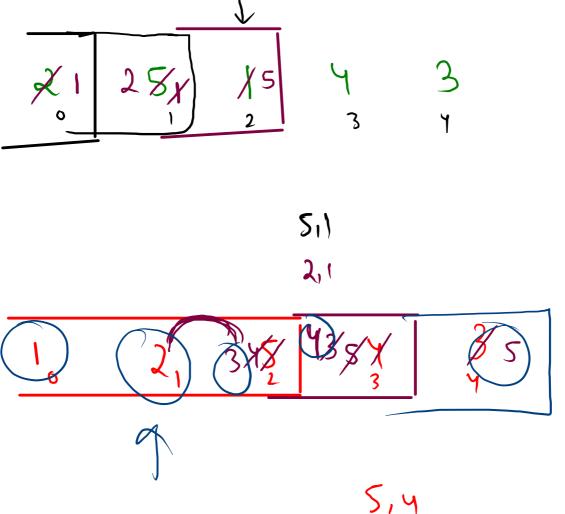
min 12x=1

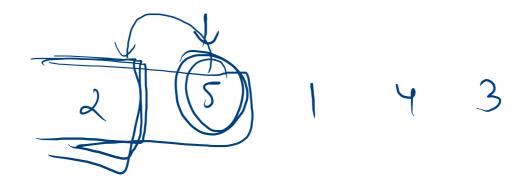
0=0

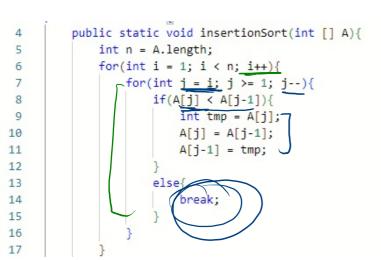
min ldx=2

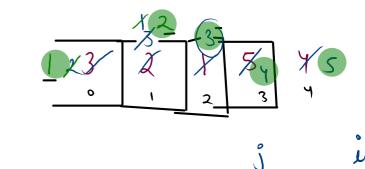
```
// SMUP( militur ) 1/
     public class Main {
         public static void selectionSort(int [] A){
             int n = A.length;
             for(int i = 0; i < n-1; i++){
                 int minIdx = i;
                 for(int j = i+1; j < n; j++){
10
11
                      if(A[j] < A[minIdx]){</pre>
                         minIdx = j;
12
13
14
15
                 int tmp = A[i];
                 A[i] = A[minIdx];
16
                 A[minIdx] = tmp;
17
18
19
             for(int i = 0; i < n; i++){
20
                 System.out.print(A[i] + " ");
21
22
23
24
25
         public static void main(String[] args) {
26
             Scanner scn = new Scanner(System.in);
27
             int n = scn.nextInt();
28
             int [] A = new int[n];
29
             for(int i = 0; i < n; i++){
30
                                                                                  mi =0
31
                 A[i] = scn.nextInt();
32
             selectionSort(A);
33
34
35
36
```

current ele at its right pas. Insertion sort 411









i=x 18 4



```
import java.util.*;
     public class Main {
 3
         public static void insertionSort(int [] A)
             int n = A.length;
             for(int i = 1; i < n; i++){
                 for(int j = i; j >= 1; j--){}
                     if(A[j] < A[j-1]){
                         int tmp = A[j];
                         A[j] = A[j-1];
                         A[j-1] = tmp;
                     else{
                         break;
             for(int i = 0; i < n; i++){
                 System.out.print(A[i] + " ");
         public static void main(String[] args) {
             Scanner scn = new Scanner(System.in);
23
24
             int n = scn.nextInt();
             int [] A = new int[n];
             for(int i = 0; i < n; i++){
                 A[i] = scn.nextInt();
             insertionSort(A);
```

10

11 12 13

18

25

26

27