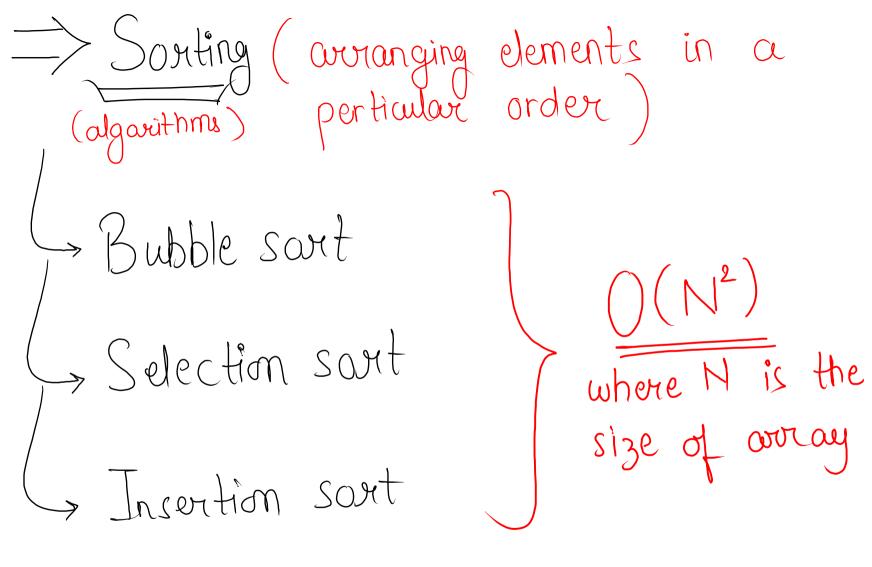
## Module 2

Problems  $=_1)$  () uestions 2) Logic Building

3) Dry Run

4) Coting



Bubble Sart 4 Pick the largest element and place it to the sight most side of unsarted part of away

Ory man

Over = 
$$\begin{bmatrix} 5 & 9 & 8 & 2 & 1 \\ 5 & 9 & 8 & 2 & 1 \end{bmatrix}$$

The second of the same of the side of unsarted part of away

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Dengo for (int i=0; i < n-1; i++){ for (int j=0; j< n-i-1; j++) {

if (avr[j] > avr[j+1]) {

Swap (j, j+1);

Permutation

 $j \longrightarrow myself$   $(j+1) \longrightarrow other$ 

```
public static void swap(int[] arr, int x, int y) {
   int temp = arr[x];
   arr[x] = arr[y];
   arr[y] = temp;
       au
     int temp= ovor[x];
     \text{cur}[x] = \text{cur}[y]
                                        int temp = a;
a = b;
     our [4] = temp;
                                               b = temp;
```

```
code
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
         arr[i] = scn.nextInt();
    }
    bubbleSort(arr, n);
public static void bubbleSort(int[] arr, int n) {
    //logic
   -for (int i = 0; i < n - 1; i++) {
 for (int j = 0; j < n - i - 1; j++) {
    if (arr[j] > arr[j + 1]) {
        swap(arr, j, j + 1);
    }
    //printing
   for (int i = 0; i < n; i++) {
    System.out.print(arr[i] + " ");
}
public static void swap(int[] arr, int x, int y) {
    int temp = arr[x];
    arr[x] = arr[y];
    arr[y] = temp;
}
```

