Greater Than Me (Permutation with/without Repetation) L' for each indere, count greater elemente than myself CVM= 5, 3, -2, 6, 4]

$$CWT = \begin{bmatrix} 1, 3, 4, 0, 2 \end{bmatrix} \underline{a}$$

5 :- [5] 6,7,....

greater strickty greater 5 :- 6,7,8,····∞

Note: - avorsi] = myself aro [] = other

```
code
```

```
public static void main(String[] args) {
                                                                                                                                                                                                                                                                                                                          Over = [3, -2, 4, 1]
                      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();
                     }
                                                                                                                                                                                                                                                                                                           greaterThanMe(arr, n);
public static void greaterThanMe(int[] arr, int n) {
                      for (int i = 0; i < n; i++) {
                                           int count = 0;
                                for (int j = 0; j < n; j++) {
    if (arr[j] > arr[i] ) {
        count++;
                                                                                                                                                                                                                                                                                                                                                   j=3 (1>3) j=2, (4>4) x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 j=3, (1>4) K
                                            System.out.print(count + " ");
                                                                                                                                                                                                                                                                                                     i = 1, j = 0 (3 > -2) \times j = 0, (3 > 1) \times j = 0, (3 > 1) \times j = 0, (3 > 1) \times j = 2, (4 > 1) \times j = 3, (1 > 1)
                                                                                                                                                                                                                                                                                                                 count = 8 x 2 3
```

## **Greater At Right**

```
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();
    greaterThanMe(arr, n);
public static void greaterThanMe(int[] arr, int n) {
    _for (int i = 0; i < n; i++) {
     int count = 0;
for (int j = <u>i + 1</u>; j < n; j++) {
    if ( arr[j] > arr[i] ) {
        count++;
    }
         System.out.print(count + " ");
```

<u>maximum difference</u> between the two (9m)elements

La find manimum diff. in a pair larger element should be on the right side

Oron = 2 3 10 6 4 8 1

 $2.3 = \bot$ 2,10 = 8

faith:- avoil] = myself (smaller element)

avoilj] = other (larger element)

76 = 4 24 = 22/8 = 63,10 = 73/6 = 3

3,4 = 1 3.8 = 56,8 = 24, 8 = 4

```
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();
     int ans = maxDiff(arr, n);
     System.out.println(ans);
public static int maxDiff(int[] arr, int n) {
     int ans = Integer.MIN_VALUE;
     for (int i = 0; i < n; i++) {
  for (int j = i + 1; j < n; j++) {
    if ( arr[j] > arr[i] ) {
        int diff = arr[j] - arr[i];
        if ( diff > ans ) {
            ans = diff;
        }
}
     return ans;
```

## Max Count 3

$$OVO = \begin{bmatrix} 2, 1, 4, 2, 2, 1, 4, 2, 4 \end{bmatrix}$$

$$0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8$$

```
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();
    }
    maxCount(arr, n);
public static void maxCount(int[] arr, int n) {
    for (int i = 0; i < n; i++) {
        int count = 0;
        for (int j = 0; j < n; j++) {
            if ( arr[i] == arr[j] ) {
                count++;
        // update your answer
        // keep maximum value of count
        // and array element assosiated with it.
```