

=====

Set 2

// Online Java Compiler

// Use this editor to write, compile and run your Java code online

// Q.1) Accept 10 number in an array. Display all even number at the beginning and all Odd at the end. Use only one loop

```
class Main {
```

```
    public static void evensort(int arr[]){
```

```
        String even = "";
```

```
        String odd = "";
```

```
        for (int i=0; i<=arr.length-1; i++) {
```

```
            if (arr[i] % 2 == 0) {
```

```
                even += arr[i] + " ";
```

```
            } else {
```

```
                odd += arr[i] + " ";
```

```
            }
```

```
        }
```

```
        System.out.print(even + odd);
```

```
}
```

```
public static void main(String[] args) {
```

```
    int arr[] = {1,2,3,4,5,6,7,8,9,0};
```

```
    evensort(arr);
```

```
}
```

```
}
```

```
=====
```

```
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```

Q.2) Accept 5 number in an array and sort it. Accept a number from user and check if it is there in an array or not use binary search.

```
import java.util.Arrays;
```

```
class Main {
```

```
    public static void search(int arr[], int key) {
```

```
        int left = 0;
```

```
        int right = arr.length - 1;
```

```
        boolean found = false;
```

```
        while (left <= right) {
```

```
            int mid = (left + right) / 2;
```

```
            if (arr[mid] == key) {
```

```
                System.out.println("Key found at index " + mid);
```

```
                found = true;
```

```
                break;
```

```
            }
```

```
            else if (key < arr[mid]) {
```

```
                right = mid - 1;
```

```
            }
```

```
            else {
```

```
                left = mid + 1;
```

```
            }
```

```
}
```

```
if (!found) {
```

```
    System.out.println("Key not found");
```

```
}
```

```
}
```

```
public static void main(String[] args) {
```

```
    int arr[] = {8, 2, 10, 4, 6};
```

```
    Arrays.sort(arr);
```

```
    int key = 6;
```

```
    search(arr, key);
```

```
}
```

```
}
```