

Priority Queue

PriorityQueue is used whenever we want the priority element or the smallest element at the top in such cases PriorityQueue is used.

Whenever numbers are passed to the PriorityQueue it will bring smallest numbers at the top.

Whenever strings are passed to the PriorityQueue it will choose the priority element based on dictionary format (whichever comes first) and place it on the top.



Program 1

```
import java.util.*;
```

```
public class CollectionsDemo {
```

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

```
        PriorityQueue pq = new PriorityQueue();
```

```
        pq.add(50);
```

```
        pq.add(40);
```

```
        pq.add(20);
```

```
        pq.add(10);
```

```
        pq.add(30);
```

```
        System.out.println (pq);
```

```
    }
```

```
}
```

Output

[10, 20, 40, 50, 30]



Program 2

```
import java.util.*;
```

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

```
        PriorityQueue pq = new PriorityQueue();
```

```
        pq.add("gitesh");
```

```
        pq.add("jeetesh");
```

```
        pq.add("dinesh");
```

```
        pq.add("mahesh");
```

```
        pq.add("suresh");
```

```
        System.out.println(pq);
```

```
    }
```

```
}
```

Output

[dinesh, jeetesh, gitesh, mahesh, suresh]

