

Question 1: Explain difference between PriorityQueue() and LinkedList()

PriorityQueue()	LinkedList()
<ul style="list-style-type: none">It is an unbounded priority queue based on a priority heap. The elements of the priority queue are ordered accordingly to their natural ordering, or by a Comparator provided at queue construction time, depending on which constructor is used.	<ul style="list-style-type: none">It is a doubly-linked list implementation of the list and deque interfaces. Implements all optional list operations and permits all elements (including null).

Question 4: Explain Generics in Java and Its Importance with example

The java generics programming is introduced in J2SE 5 to deal with type-safe objects. It makes the code stable by detecting the bugs at compile time. Before generics we can store any type of objects in the collection i.e. Non-generic. Now generics force the java programmer to store a specific type of objects.

Example:

```
class TestGenerics1{
    Public static void main(String args[]){
        ArrayList<String> list = new ArrayList<>();
        list.add("dev");
        list.add("raj");
        list.add(11); //compile time error.
```

```
String s = list.get(1);
System.out.println("element is "+s);
```

```
Iterator<String> itr = list.iterator();
while(itr.hasNext()){
    System.out.println(itr.next());
}
}
```