Queue Interface

```java
import java.util.Deque;

import java.util.ArrayDeque;


class Tester {


    public static Deque<Object> mergeQueue(Deque<Integer> intQueue, Deque<Character> charQueue) {

        Deque<Object> mergedQueue = new ArrayDeque<>();


        while (!intQueue.isEmpty() || !charQueue.isEmpty())

          { if (!intQueue.isEmpty()) {

            mergedQueue.add(intQueue.poll());

          }

          if (!charQueue.isEmpty())

            { mergedQueue.add(charQueue.poll());

          }

        }


        return mergedQueue;

    }


    public static void main(String[] args) {


        Deque<Integer> integerQueue = new ArrayDeque<>();

        integerQueue.add(3);

        integerQueue.add(6);

        integerQueue.add(9);
```

```java
        Deque<Character> characterQueue = new ArrayDeque<>();

        characterQueue.add('a');

        characterQueue.add('e');

        characterQueue.add('i');

        characterQueue.add('o');

        characterQueue.add('u');

        characterQueue.add('b');


        Deque<Object> mergedQueue = mergeQueue(integerQueue, characterQueue);


        System.out.println("The elements in the merged queue are:");
        for(Object element: mergedQueue) {

            System.out.println(element);

        }

    }

}
```

```
The elements in the merged queue are:
3
a
6
e
9
i
o
u
b
```