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);

        }

    }

}
```

```
C:\Users\Sarvesh\OneDrive\Desktop>java Tester3
The elements in the merged queue are:
3
a
6
e
9
i
o
u
b
```