

Prof. Edwar Saliba Júnior

```
1 package poo_unidade_11_ex05_blockingbuffer;
2
3 import java.util.concurrent.ArrayBlockingQueue;
4
5 /**
6  * @author Edwar Saliba Júnior
7  */
8 public class BlockingBuffer implements Buffer {
9     private ArrayBlockingQueue <Integer> buffer;
10
11    public BlockingBuffer() {
12        buffer = new ArrayBlockingQueue<Integer>(3);
13    }
14
15    @Override
16    public void set(int value) {
17        try{
18            buffer.put(value); // Coloca valor no buffer circular.
19            System.out.printf("%s%2d\t%s%d\n", "Produtor escreveu: ", value,
20                             "Buffers ocupados: ", buffer.size());
21        }
22        catch(Exception e){
23            e.printStackTrace();
24        }
25    }
26
27    @Override
28    public int get() {
29        int readValue = 0;
30
31        try{
32            readValue = buffer.take(); // Remove valor do buffer circular.
33            System.out.printf("%s%2d\t%s%d\n", "Consumidor leu:      ",
34                             readValue, "Buffers ocupados: ", buffer.size());
35        }
36        catch(Exception e){
37            e.printStackTrace();
38        }
39
40        return readValue;
41    }
42}
```