ESTRUCTURA DE DATOS 1 Código ST0245

Laboratorio Nro. 3 pilas y colas

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3) Simulacro de preguntas de sustentación de Proyectos

3.1		LinkedList	ArrayList
	2.1	O(n+m^2)	O(n^2+m)

In the numeral 2.1, we can see that O(n+m^2) and O(n^2+m) are very similar and have the "same" complexity, the real difference appears when n is bigger than m o vice versa. Both of them work pretty well, depending the case.

- **3.2** Starts by analyzing each character of the String, if the character its different to [and], its added to another String(b), if not, b (if is not empty) will be added to a linked list, and continue with the process before, but, if the character [was found, the String b will be added at the beginning of the list, by the other hand, if the character found was], will be added in the tail.
- 3.4 n is the size of the original String and m is the size of the List.

4) Simulacro de Parcial

3.3 O(n+m²)

```
4.1 a
4.2 O(n)
4.3 a) q.size>1
b) >=
c) q.getLast()
d) q.get(0)
4.5

4.5.1 auxiliar1.size()>0 auxiliar2.size()>0
4.5.2 personas.offer(edad) personas=método invertirqueue(Queue<Integer> a)
4.6 a
4.7 a
4.8

4.81 c
```

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```
4.8.2 d
       4.8.3 c
4.9
       4.9.1 n
       4.9.2 a
       4.9.3 d
4.10
       4.10.1 b
       4.10.2 b
4.11
       4.11.1 s2.size()<=s1.size
       4.11.2 s1.pop()
       4.11.3 s2
4.12
       4.12.1 i
       4.12.2 i
4.13
       4.13.1 iii
       4.13.2 iv
4.14 iv
```

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