ESTRUCTURA DE DATOS 1 Código ST0245

Laboratory practice No. 3 Linked Lists, Dynamic Vectors and Hash Tables

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3) Practice for final project defense presentation

3<u>.1</u>

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	ArrayList	LinkedList
Exercise 1.1	O(n)	O(n'2)

3.3 $T(n) = O(n^2)$

3.4 n is the size of the list

4) Practice for midterms

- 4.1.1 b) "Suponiendo que l1 y l2 están ordenadas, una nueva lista con los elementos de ambas listas ordenados"4.1.2 b) O(n+m)
- **4.2** c) O(n)
- 4.3.1 b) "que inician con la misma letra colisionan"4.3.2 d) O(1)
- **4.4.1** output.append(stack.pop()).append(' '); **4.4.2** c)O(1)
- **4.5** a) [7,8,3,1,2,9]
- 4.6 a) O(n^3)
- 4.7 c) O(n)
- **4.8 4.8.1** a) O(k)

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- **4.8.2** c) 12 **4.8.3** b) O(n)
- **4.9.1** c) O(n^2) **4.9.2** a) 6 **4.9.3** b) O(n)
- **4.10.1** c) O(max(list)*n^2) **4.10.2** b) O(n)
- 4.11 4.11.1 s2.isEmpty(e);4.11.2 s2.push(e);4.11.3 return s2;
- **4.12.1 iv)** 0, 2, 4, 6, 8, 10 **4.12.2 i)** O(1)
- **4.13 4.13.1 iv)** O(n^3) **4.13.2 iii)** O(n^2)
- **4.14** iii) 2, 3, 4, 5



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