

Laboratory practice No. 3: Linked List and Array List

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1) Grimaldos, A (2019) lab03 (Version 1.0) [Source code].
<https://github.com/agrimaldoe/ST0245-032/tree/master/laboratorios/lab03/codigo>

3) Practice for final project defense presentation

3.1

	ArrayList	LinkedList
Consultation 1	$O(n^2 \cdot m)$	$O(n \cdot m)$
Consultation 2	$O(m+r)$	$O(m+r)$

3.3 The complexity of the exercise 2.1 is $O(n)$

3.4 For point 3.1:

n = Number of students

m = Number of semesters the student has seen

r = Number of subjects of the semester

For point 3.3 n = Length of the String

4) Practice for midterms

4.1.1 b

4.1.2 b

4.2 c

4.3.1 b

4.3.2 a

4.4.1 Line 21 Stack.pop()

4.5 a

4.6 a

4.7 c

4.8.1 a

4.8.2 b

4.8.3 b

4.9.1 d

4.9.2 d

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ESTRUCTURA DE DATOS 1
Código ST0245

4.9.3 d
4.10.1 b
4.10.2 d
4.11.1 !S1.isEmpty()
4.11.2 S1.pop()
4.11.3 S2.pop()
4.12.1 ii
4.12.2 i
4.13.1 iii
4.13.2 iii
4.14 iii

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