

Laboratory practice No. 3: Linked List and dynamic vectors

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3) Practice for final project defense presentation

3.1 $O(n^2)$ is the complexity for the arraylist and $O(n)$ is the complexity for the LinkedList.

3.2 The algorithm BrokenKeyboard will read the input/file to the linked list with some conditions. if the character "[" is found it means it's the start and the position of the word will be change and when the character "]" is found it means the end and happens the same than the other character.

3.3 $O(n)$.

3.4 s is the String used in the brokenkeyboard; c are the characters in the string s.

4) Practice for midterms

4.1 $O(n)$

4.2 $O(n)$

4.3

4.3.1 0, 2, 4, 6, 8, 10

4.3.2 $O(1)$

4.4

-token

-

4.5 [7, 8, 3, 1, 2, 9]

4.6 $O(n^2)$

4.7 5, 4, 3, 2

4.8 $O(1)$ y $O(n)$

4.9 $O(k)$

4.10

4.10.1 $O(n)$

4.10.2 6

4.11

4.11.1 $O(\max(\text{list}) \times n)$

4.11.2 $O(n^2)$

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ESTRUCTURA DE DATOS 1
Código ST0245

4.12 —

4.13

4.13.1 $O(n^2)$

4.13.2 $O(n)$

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