

1.5 - Chapter 1 exercises

Homework

Ex 2: Given a ordered list up to 100 elements of integer type. (Solid list = array)

2.1. Declare list structure

2.2. Add an element in the list.. Note: do not order the list

2.3. Display the list

2.4. Find an element in the list (by sequential search). Complexity of the list ?

2.5. Find an element in the list (by binary search). Complexity of the list ?

2.6. Find an element in the list. If found, remove it. (*)

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Ex 4: Given an ordered simply link list of integer elements

- 4.1. Declare the data structure
- 4.2. Create empty list
- 4.3. Add new element in the list. Note: Do not order the list.
- 4.4. Display the list.
- 4.5. Find an element in the list
- 4.6. Find an element, if found remove it.

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Ex 12: Given an integer list. (by using doubly linked list)

12.1. Declare the data structure.

12.2. Create empty list.

12.3. Display the list

12.4. Add an element at the beginning.

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12.5. Add an element to the end.

12.6. Remove first element.

12.7. Remove last element.

12.8. Find an element in the list. If found, remove it.

12.9. Find an element containing the value X or closest of it. Add an element before the found element.

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Homework

Ex 8: Using pre-constructed stack in Practice Lesson 3 , convert a decimal number to any system number.

Ex 9: Using pre-constructed stack, solve the problem HANOI tower (*)