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| Kyrgyz State Technical University |
| Algorithms and Data Structures |
| Laboratory work 3 |

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| Abakirov Nursultan SE(eng)1-16 |

1. Definition of list.
2. How is list classified?
3. Definition of linear list.
4. What common operations are admitted to the elements of list?
5. How is access to elements of list made?
6. What is static linear list?
7. How is operation of adding an element to the list realized?
8. How is operation of deleting an element to the list realized?
9. How can we realize search of an element in the static linear list?
10. List the advantages and disadvantages of the static linear list.

Design program

With functions

* Initialization of the list
* Adding an element to the list
* Deleting an element by position
* Deleting an element by set value
* Search an element by value in the list
* Search an element by position in the list
* Output of the list elements
* Deleting of the list.

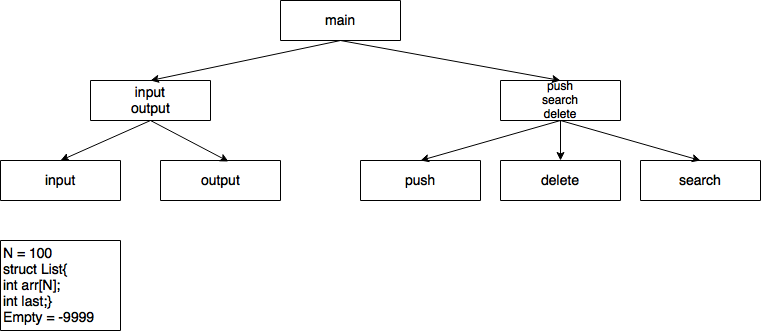
**Requirements:**

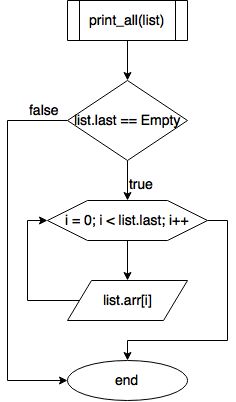
Type of Input must be an integer.

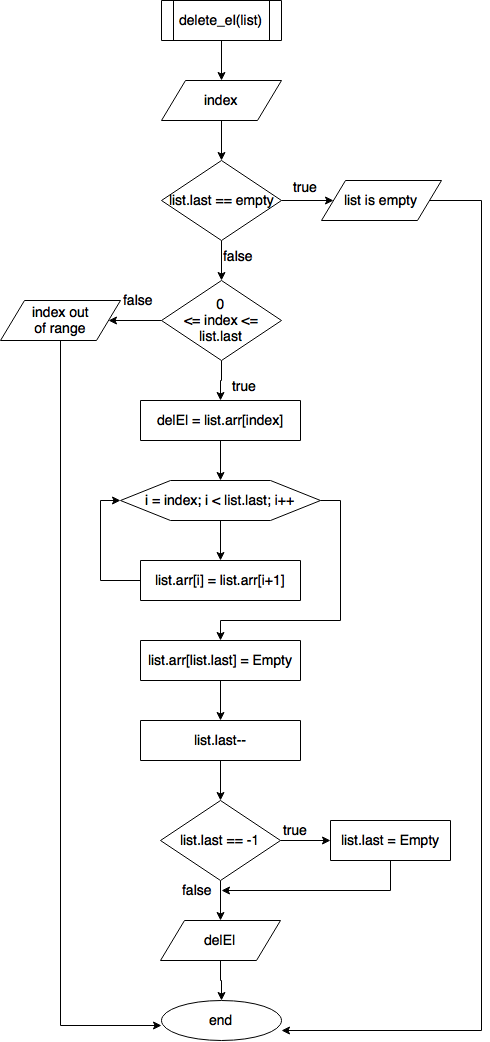
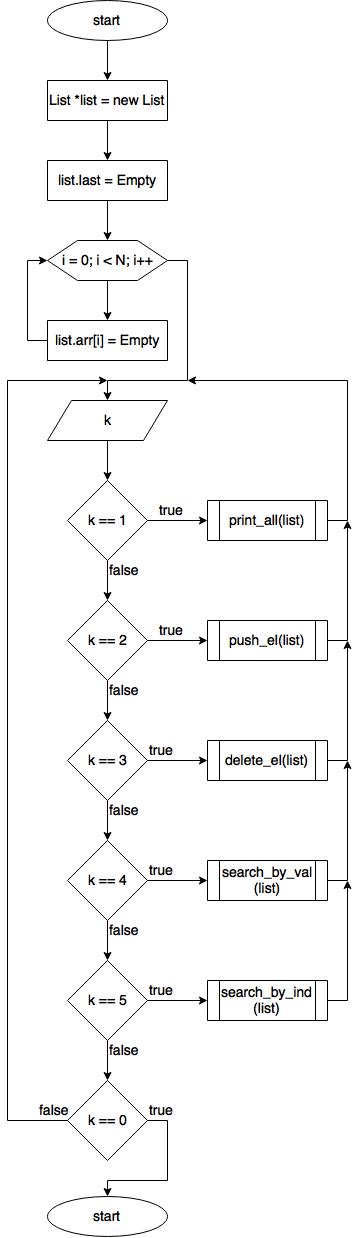
**Design of diagrams.**

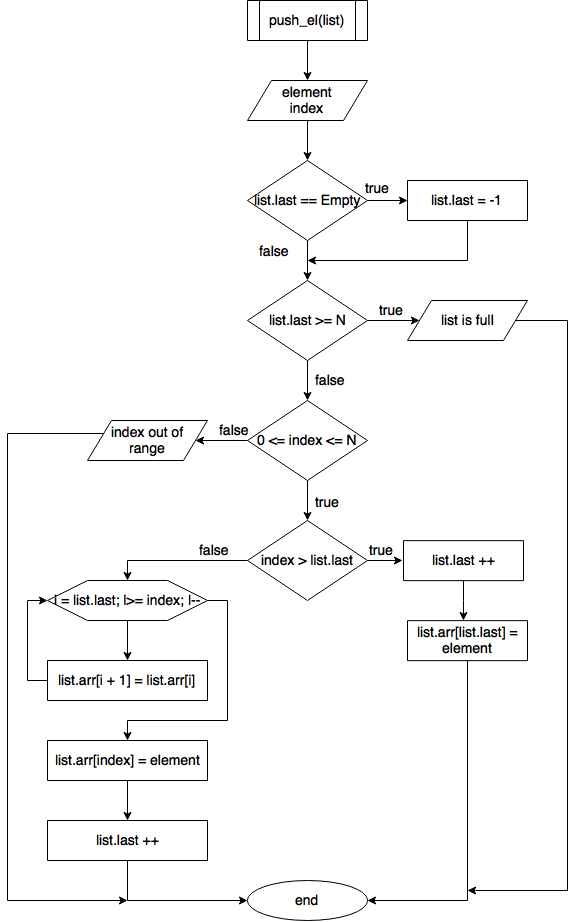
**Design** - The structural method – decomposition. To decompose the task at the top level (modules) and the lowest level (function). Process data for exception cases.

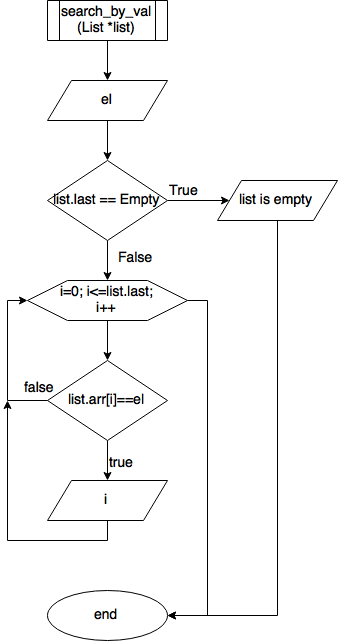
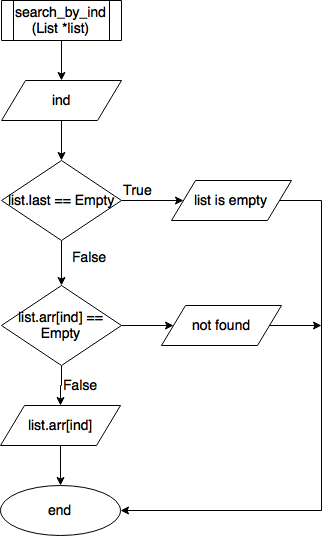
**First level design by top-down**







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