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# ASSEMBLY LANGUAGE PROGRAMMING PROJECT

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**Project Title: -**        **"Binary search"**

**Description: -**        User enters a list of unsigned numbers and then searches if a specific number exists to present its occurrence in the entered list.

- Details: -**
- Maximum allowed number length is 3.
  - Comma should be used to separate numbers, any keypad than the numbers can be used as comma.
  - Binary algorithm must be used as the search algorithm.
  - Number of occurrence an input search should be viewed on the LCD.
  - Bonus: If the number occurrence of the searched number is less than 9, view it in the dot matrix.

## Example

The input  
screen

Enter the list:

111, 222, 333, 444

Enter number to search:

222

Result: (1)

## You will submit:

- A complete flow chart for your program
- Procedures description that contains
  - Task accomplished by the procedure.
  - List of input parameters and their usage.
  - Description of any value calculated/returned by the procedure.
  - Preconditions that must be satisfied before the procedure is called.