

CIS 231 PROGRAMMING ASSIGNMENT 8: LINEAR SEARCH

Make a program to perform linear search for a single numeric Ascii character

OBJECTIVE: Write a program using a loop to compare each array element to a target value provided through user input.

- If the target value is found, write the array index of where the target value was to the console.
- If the target value is not found, output a message indicating that target value was not found.

Outputs from a properly working program is shown below:

```
Here are the elements: 7321056489
Enter a number to search for: 0
The target value was found at index 4
sn-4.3% demo
```

Test case 1: the number 0 is found at array index 4

```
Here are the elements: 7321056489
Enter a number to search for: 8
The target value was found at index 8
sh-4.3$ demo
```

Test case 2: the number 8 is found at array index 8

```
Here are the elements: 7321056489
Enter a number to search for: 6
The target value was found at index 6
sh-4.3$ demo
```

Test case 3: the number 6 is found at array index 6

```
Here are the elements: 7321056489
Enter a number to search for: 4
The target value was found at index 7
sh-4.3$
```

Test case 4: the number 4 is found at array index 7

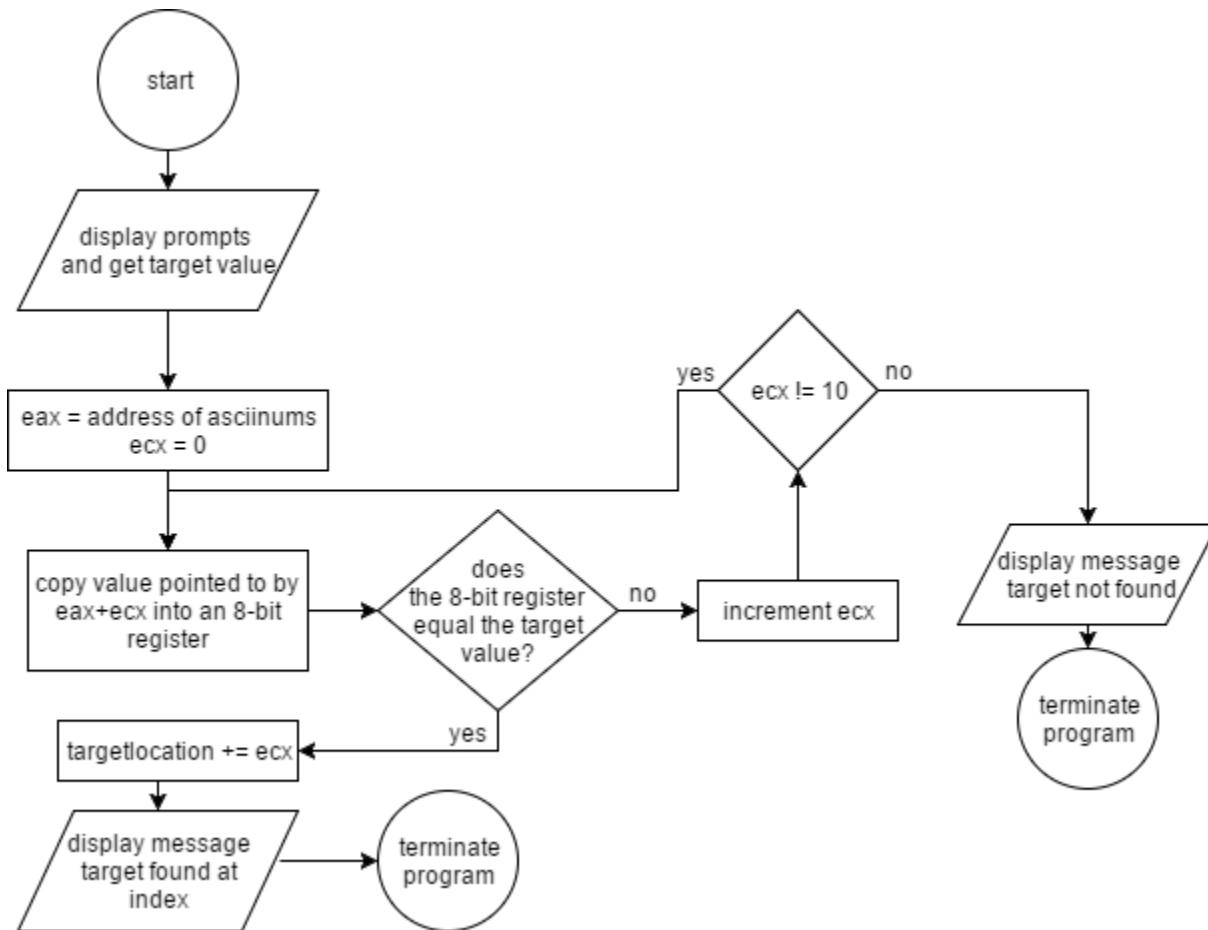
PROCEDURE: Use the skeleton code found at the following link as skeleton code.

https://cerritos.instructure.com/files/210380/download?download_frd=1

The flow chart on the next page models the logic for the program. Use it along with the comments to fill in the appropriate instructions to complete this assignment.

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NASM sequential search program flow chart:



WHAT TO TURN IN:

After correct operation of your program in has been verified:

1. Save your assembly source file
2. Upload your assembly source file to Programming Assignment 8 submission box on Canvas
3. Have a great day!