

California State University,
Monterey Bay

Week 1 –
Programming Assignment
Linked Lists

Clarence Mitchell

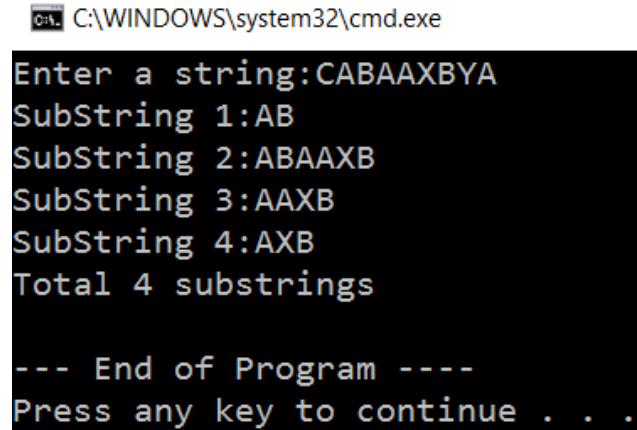
CST370

Design and Analysis of Algorithms

Spring 2016

Instructor: Dr. Seetharam

Test Run 1 Screen Shot



```
C:\WINDOWS\system32\cmd.exe
Enter a string:CABAAXBYA
SubString 1:AB
SubString 2:ABAAXB
SubString 3:AAXB
SubString 4:AXB
Total 4 substrings

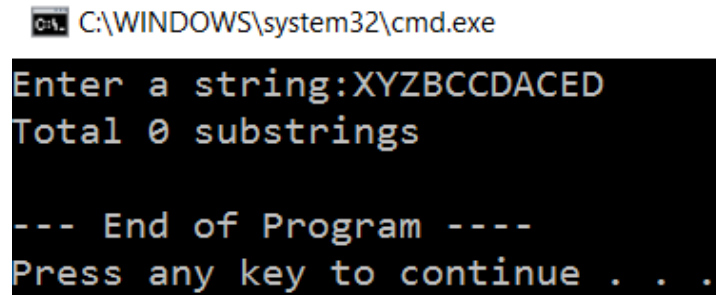
--- End of Program ---
Press any key to continue . . .
```

Explanation

The user was queried for an input string, after a none blank string was enter the Linked List object is instantiated using the string. Then a call was made to the method *findSubStrings* passing the starting character of “A” and the ending character “B” (along with the output stream).

The display shows that 4 substrings were found for the given starting / ending pair.

Test Run 2 Screen Shot



```
C:\WINDOWS\system32\cmd.exe
Enter a string:XYZBCCDAGED
Total 0 substrings

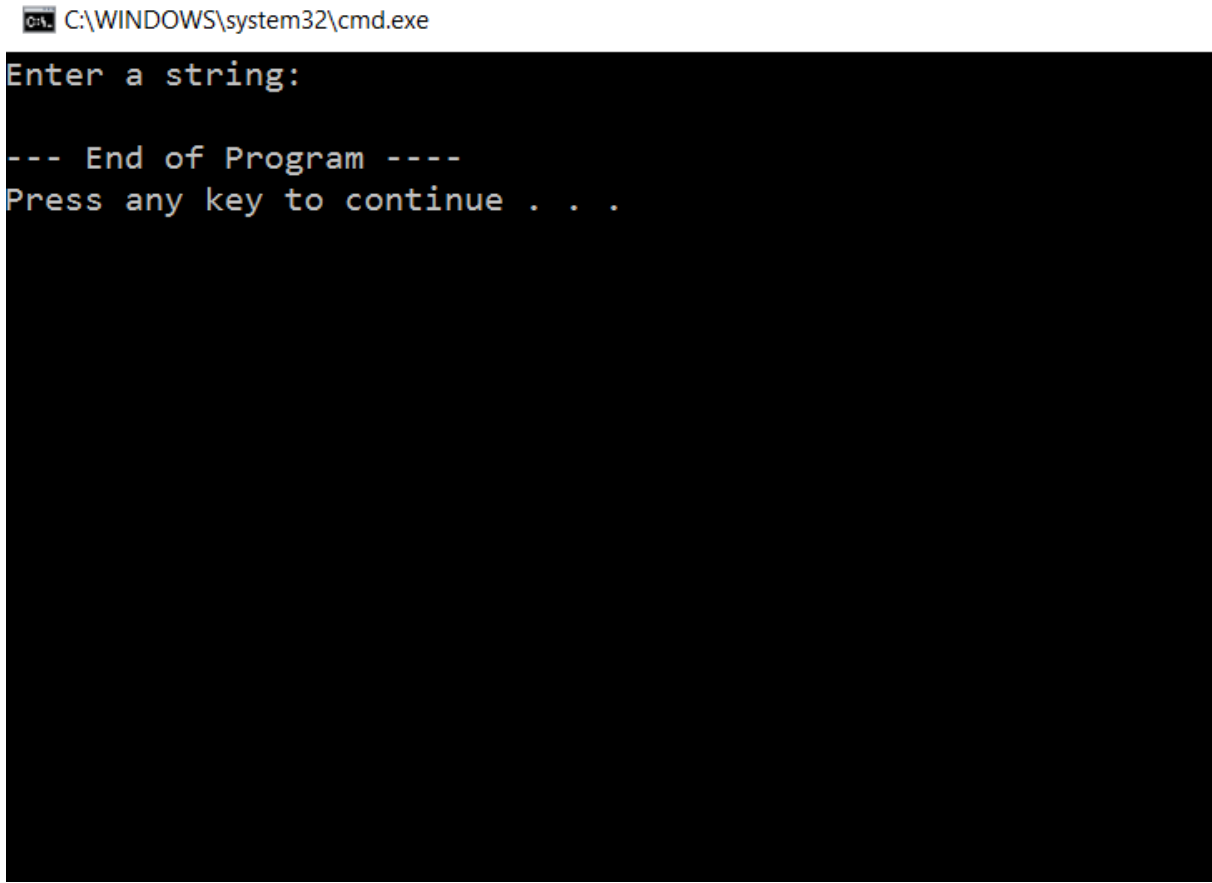
--- End of Program ---
Press any key to continue . . .
```

Explanation

The user was queried for an input string, after a none blank string was enter the Linked List object is instantiated using the string. Then a call was made to the method *findSubStrings* passing the starting character of “A” and the ending character “B” (along with the output stream).

The display shows that no substrings were found for the given starting / ending pair.

Test Run 3 Screen Shot



```
C:\WINDOWS\system32\cmd.exe

Enter a string:

--- End of Program ---
Press any key to continue . . .
```

Explanation

The user was queried for an input string, and the input string that was entered was blank. So the Linked List was not created and processed