

California State University,  
Monterey Bay

Week 2 – Lab  
Stacks

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*CST370*

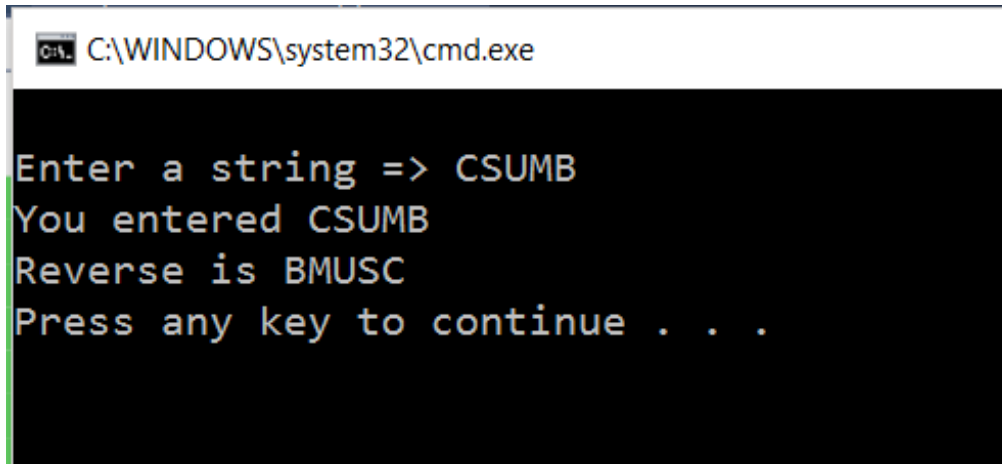
*Design and Analysis of Algorithms*

*Spring 2016*

*Instructor: Dr. Seetharam*

## Exercise (a) Screen Shots

### Test Run 1



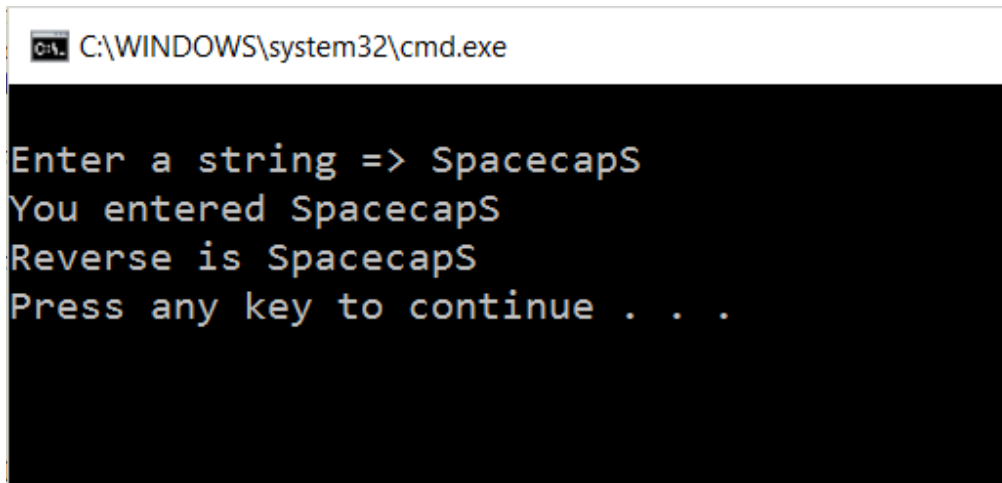
```
C:\WINDOWS\system32\cmd.exe

Enter a string => CSUMB
You entered CSUMB
Reverse is BMUSC
Press any key to continue . . .
```

Explanation:

A run was made using **CSUMB**, which was reversed to **BMUSC**.

### Test Run 2



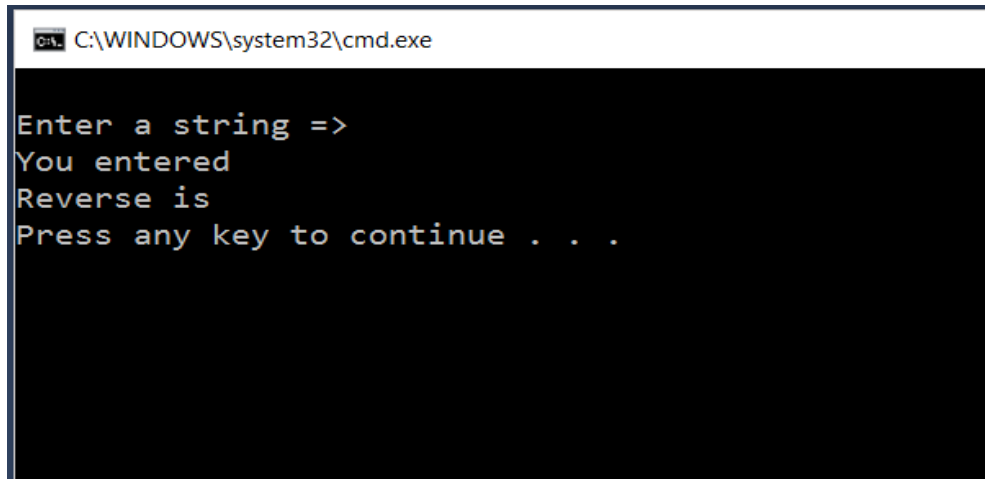
```
C:\WINDOWS\system32\cmd.exe

Enter a string => SpacecapS
You entered SpacecapS
Reverse is SpacecapS
Press any key to continue . . .
```

Explanation

A run was made using the palindrome **SpacecapS**, which was reversed to **SpacecapS**.

## Test Run 3



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

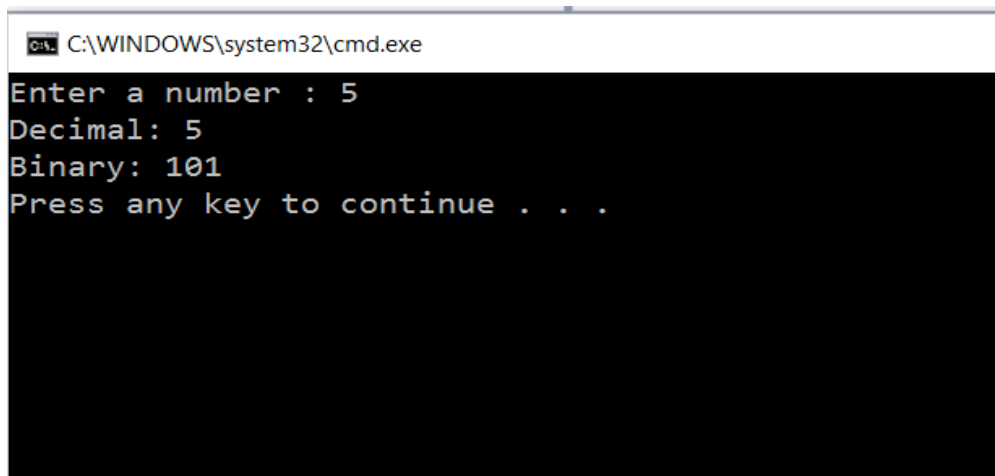
Enter a string =>
You entered
Reverse is
Press any key to continue . . .
```

Explanation

A run was made using the empty string, which was reversed to **nothing**.

## Exercise (b) Screen Shots

### Test Run 1



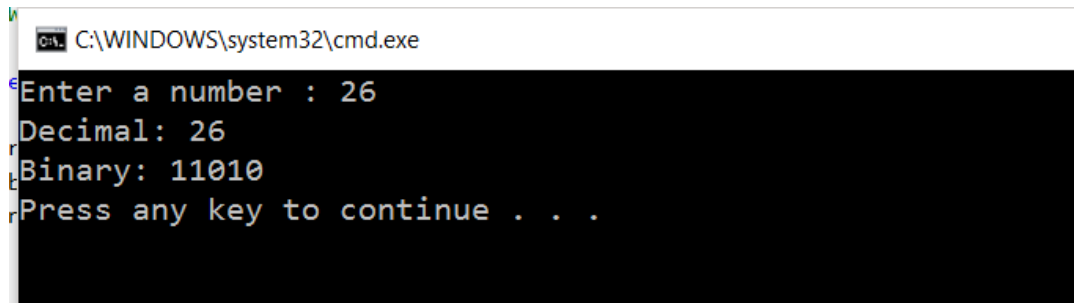
```
C:\WINDOWS\system32\cmd.exe

Enter a number : 5
Decimal: 5
Binary: 101
Press any key to continue . . .
```

Explanation:

A run was made using the number **5**, which was convert to **101** in binary.

## Test Run 2

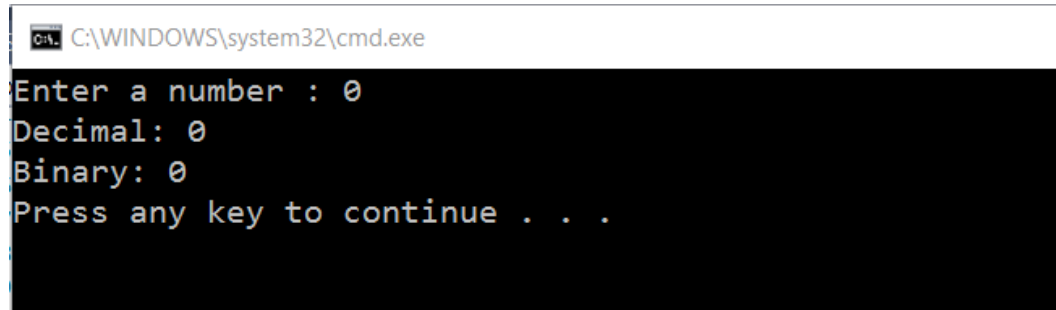


```
C:\WINDOWS\system32\cmd.exe
Enter a number : 26
Decimal: 26
Binary: 11010
Press any key to continue . . .
```

### Explanation

A run was made using the number **26**, which was convert to **11010** in binary.

## Test Run 3

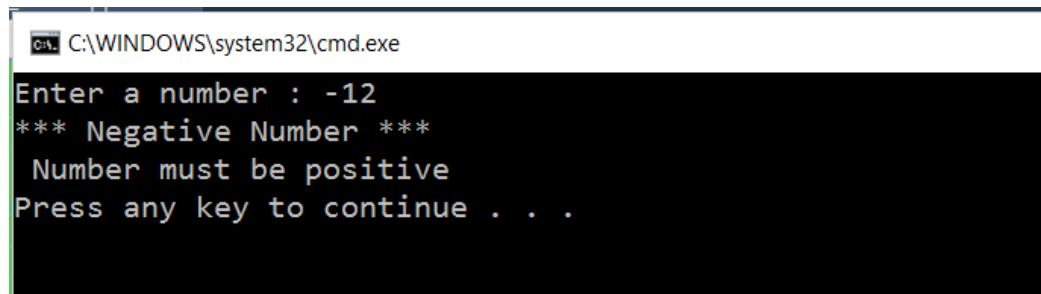


```
C:\WINDOWS\system32\cmd.exe
Enter a number : 0
Decimal: 0
Binary: 0
Press any key to continue . . .
```

### Explanation

A run was made using the number **0**, which was convert to **0** in binary.

## Test Run 4



```
C:\WINDOWS\system32\cmd.exe
Enter a number : -12
*** Negative Number ***
Number must be positive
Press any key to continue . . .
```

### Explanation

A run was made using the number **-12**, and an **Error message** is displayed then the program is terminated.