CS 210 **Name_SOLUTION_____**
Hour Exam 3 **November 17, 2016**
Practical In Class
SOLUTION

Write a string function called *indexOf* which accepts a string, a starting position, and a character as arguments. It searches the string beginning with the starting position for the character and returns the index of the character. For example, if the string is "Hello Mom" and the function is called with

```
indexOf("Hello Mom", 5, 'o')
```

it would return 7.

If the starting position is greater than the length of the string or if the character is not found, your function should return -1.

Add comments to the top of your source code to indicate:

```
//Your name
//November 17, 2016
//Exam 3 Practical
```

Turn in a printed copy of your source code.

```
int IndexOf(char *s,int start,char c)
{
    int len = strlen(s);
    if(start > len)
       return -1;
    int i = start;
    while(i < len && s[i] != c)
       i++;
    if(i == len)
       return -1;
    return i;
}
```

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SOLUTION

Write a string function called *InsertChar* which accepts a string, a position number, and a character as arguments. It inserts the character into the string at the position number. For example, if the string is "abcde" and the function is called with

```
int status = InsertChar(s, 3, 'x');
```

the string *s* would be modified to be "abcxde".

If the position number is greater than the string length, your function should return a status of -1. Otherwise, it should return a status of +1 to indicate success.

You may assume that the original string is big enough to accommodate the additional character without error.

Add comments to the top of your source code to indicate:

```
//Your name
//November 17, 2016
//Exam 3 Practical
```

Turn in a printed copy of your source code.

```
int InsertChar(char *s,int pos,char c)
   {int len = strlen(s);
    if(pos >= len)
       return -1;
    int i;
    for(i=len;i>=pos;i--)
       s[i+1] = s[i];
    s[pos] = c;
    return 1;
   }
```