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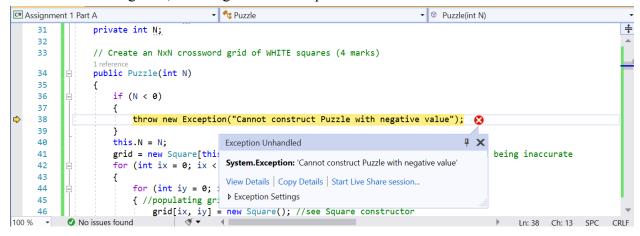
Assignment 1 - Testing

PART A:

Scenario 1: size 0, with no black squares.

```
Input size of crossword :0
Input number of black spaces :0
*Note: Colours inverted*
-
Across: Down:
Symmetric
```

Scenario 2: size negative, with negative black squares.



Scenario 3: size positive, number of black squares less than size.

Scenario 4: size positive, number of black squares greater than size.

Symmetry test

```
Input size of crossword :2
Input number of black spaces :4
*Note: Colours inverted*

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|##|##|
|##|##|
|##|##|
|##|##|
|------
Across: Down:
Symmetric
```

Size of 1 test

```
Input size of crossword :1
Input number of black spaces :1
*Note: Colours inverted*
----
|##|
|##|
----
Across: Down:
Symmetric
```

PART B:

Creating a string

```
Part B Main Menu

1: Create a string

2: Reverse a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equalilty of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.
```

After entering "1"...



Reversing the string

```
Reversing the string

1: Create a string

2: Reverse a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equality of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.
```

After entering "2"...

```
After entering "2"...

0: Program+MyString
1: Program+MyString
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
Please type the number to select the Object.
```

After entering the position of the string, in this case, "1"...

Returning the index of the first occurence of a character in a string

```
Part B Main Menu

1: Create a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equality of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.
```

After entering "3"...

```
8: Program+MyString
1: Program+MyString
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
Please type the number to select the Object.
```

```
After entering the position of the string, in this case, "1"...

Please enter a single character.
```

After entering the desired character, in this case, "A"...

```
Please enter a single character.
```

In the event that an unused character is attempted, a return to the main menu is implemented

```
Part B Main Menu

1: Create a string

2: Reverse a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equality of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.
```

Removing a character from the string

```
Part B Main Menu

1: Create a string

2: Reverse a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equality of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.
```

After entering "4"...

```
0: Program+MyString
1: Program+MyString
2:
3:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
Please type the number to select the Object.
```

```
After entering the position of the string, in this case, "1"...

Please enter a single character.
```

After entering the desired character, in this case, "A"...

In the event that an unused character is attempted, a return to the main menu is implemented

```
Part B Main Menu

1: Create a string

2: Reverse a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equalility of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.
```

Checking the equality of an object to MyString

```
Part B Main Menu

1: Create a string

2: Reverse a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equality of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.
```

After entering "5"...

```
After entering the position of the string, in this case, "1"...

Compare against a user created string or another object?

1: User String
2: A non-MyString Object
```

After entering "1"...

```
0: Program+MyString
1: Program+MyString
2:
3:
4:
5:
     6:
7:
8:
9:
10:
12:
13:
14:
15:
16:
17:
18:
      Please type the number to select the Object.
```

After entering the position of the string for comparison, in this case, "0"...

```
Compare against a user created string or another object?

1: User String

2: A non-MyString Object
```

After entering the position of the string, in this case, "1"...

```
0: Program+MyString
1: Program+MyString
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
Program+MyString
1: Program-MyString
1: Pr
```

Comparing string 1 with itself returns a positive result

```
9: Program+MyString
1: Program+MyString
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
Please type the number to select the Object.
1
True
```

Returning the string

```
Part B Main Menu

1: Create a string

2: Reverse a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equality of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.
```

After entering "6"...

```
After entering "6"...

0: Program+MyString
1: Program+MyString
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
Please type the number to select the Object.
```

After entering the position of the string, in this case, "1"...

Entering an invalid selection, in this case, "14", results in no advancement. Non-numerical keys result in the same progression.

```
Part B Main Menu

1: Create a string

2: Reverse a string

3: Return the index of the first occurence of a char in a string

4: Remove a character from a string

5: Check the equality of an object to MyString

6: Print a MyString object

7: Quit

Please type in the number of the method you want to use.

14
```