CSC120H Fall 2018 Worksheet: String Operations

1. Consider this code:

```
phrase = 'Laughing Out Loud'
```

Assuming the code above has been executed, complete the indices in the expression below that will produce the string `'LOL'`. Use at least one negative index in your answer.

```
phrase[    ] + phrase[    ] + phrase[    ]
```

2. Consider this code:

```
phrase = 'big orange cat'
slice1 = phrase[:3]
slice2 = phrase[-4:]
slice3 = phrase[3:8]
```

Assuming the code above has been executed, complete the table with the values that each variable refers to.

Variable	Value
`phrase`	
`slice1`	
`slice2`	
`slice3`	

3. Consider this code:

```
lyrics = 'abc easy as 123'
```

Assuming the code above has been executed, circle the expression(s) that produce `False`.

(a) `'easy' in lyrics` (b) `str(len('mj')) in lyrics`

(c) `'cab' in lyrics` (d) `'' in lyrics`

4. Consider this code:

```
s = 'Jacqueline'
```

You know that the slicing operation `s[1:4]` will produce the string `'acq'`. The slicing operation has an optional third parameter that determines the *stride* (or distance between characters) in the slice. For example, the slicing operation `s[::2]` will produce the string `'Jculn'`, which has every other character in `'Jacqueline'`, starting from the first character in the string, and up to the end of the string. Use a negative stride to work backwards through a string.

(a) Write an expression that uses slicing on `s` to produce the string `'aqeie'`.

(b) Write an expression that uses slicing on `s` to produce the string `'enileuqcaJ'`.

(c) Write an expression that uses slicing on `s` to produce the string `'eieqa'`.