What is string slicing?

Dylan Says

In a python shell, try the following:

```
s = 'Party on, Wayne!'
s[0:3]
s[10:16]
s[:3]
s[10:]
s[10:16:2]
```

What is string slicing?

```
>>> s = 'Party on, Wayne'
>>> s[0:3]
'Par'
>>> s[10:16]
'Wayne'
>>> s[:3]
'Par'
>>> s[10:]
'Wayne'
>>> s[10:16:2]
'Wye'
```

What is string slicing?

String Slicing

Using the [] notation to create substrings

`s[b:e:st]`

`b`: beginning index

`e`: ending index + 1

`st`: step

Will return the subsrting starting at index `b`, ending at index `(e - 1)`, going `st` characters at a time.

What is string slicing?

String Slicing

If st is 1, it can be left out

```
s[3:6:1] == s[3:6]
```

If b is 0, you can leave it out

```
s[0:5] == s[:5]
```

If e is the end of the string, you can leave it out

```
s[3:len(s)] == s[3:]
```

If `st` is negative, the substring will go backwards

What is string slicing?

`find`

Built in python function for finding a specific character in a string.

`s.find(c)`

Returns the index of the first occurrence of `c` in `s`, or `-1` if `c` is not in `s`.

`c` should be a single character string, `s` can be a string of any length.

Examples:

```
s = ‘hello'
s.find('o') ==> 4
s.find('l') ==> 2
s.find('q') ==> -1
```

What is string slicing?

Write a function that returns the left-most end of a string up to the ‘ ‘ (space) character. If there is no space, the entire string should be returned.

Examples:

```
left_string(‘hello, world’) ==> ‘hello,’

left_string(‘ihavenotimeforwhitespace’) ==>
‘ihavenotimeforwhitespace’

(solution on the next page)
```

What is string slicing?

```
def left_string(s):
    i = s.find(' ')
    return s[:i]
```