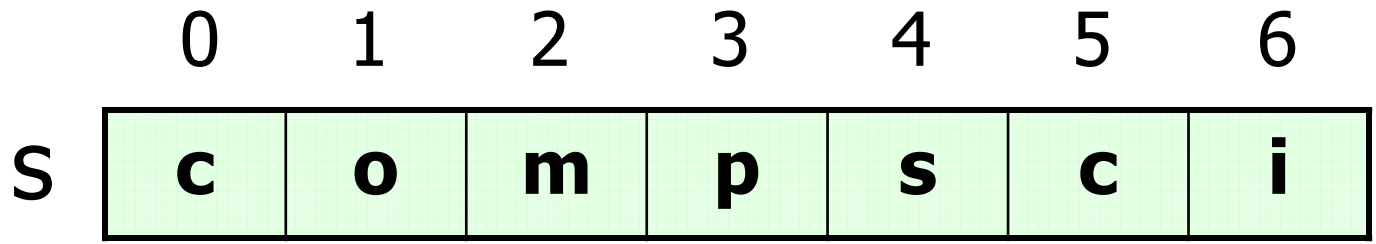
Python Strings

Strings

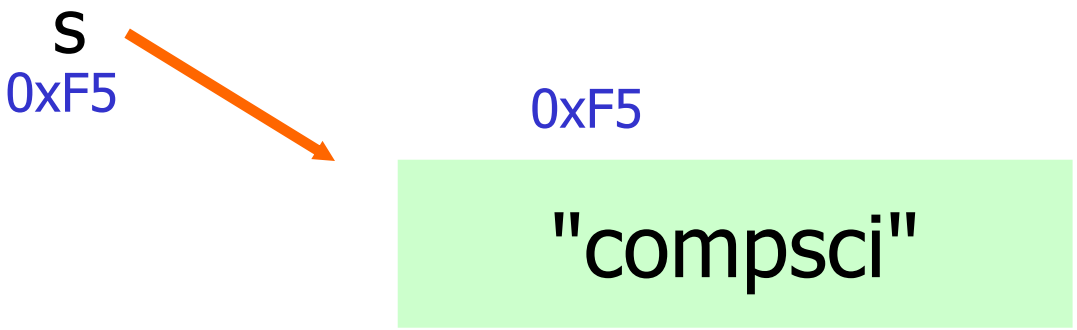
s = "compsci";



A string is a group of characters.
The first character in the group is at spot 0.

Strings

```
s = "compsci";
```



A reference variable stores the memory address of an object.

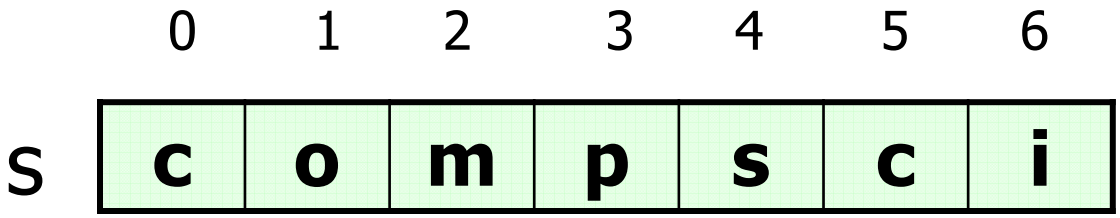
Strings

```
s = "compsci";

print  s[0]
print  s[2]
print  s[6]
```

OUTPUT

c
m
i



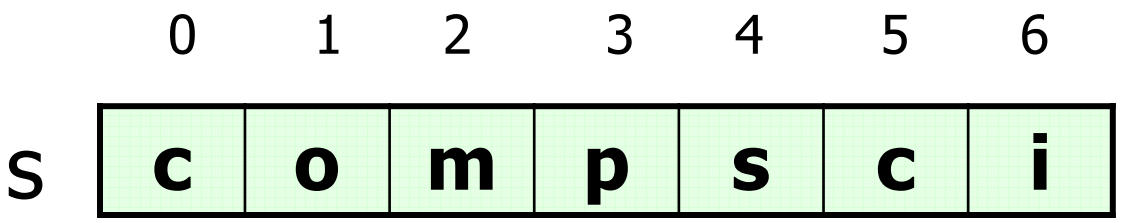
substring / slicing

```
s = "compsci";
print  s[0:2]
print  s[1:4]
```

OUTPUT

co

omp



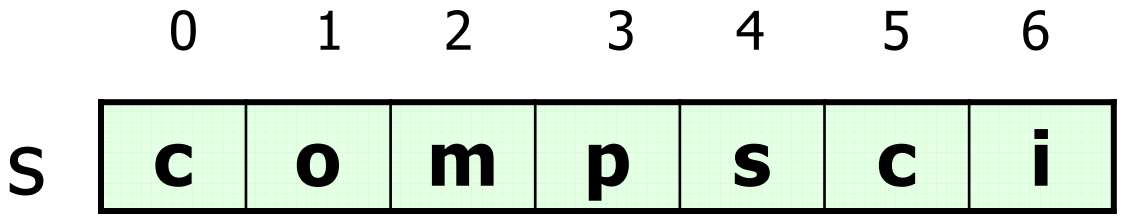
[:] slicing is used to access a section of a string.

substring / slicing

```
s = "compsci";
print  s[1:1]
print  s[:-2]
```

OUTPUT

comps



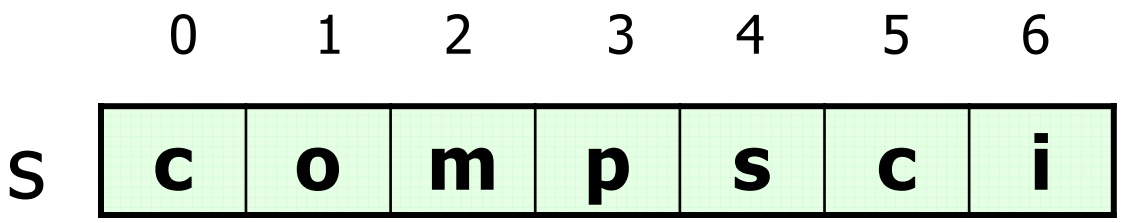
When the 2nd value is -1, python stops that many spots from the end.

substring / slicing

```
s = "compsci";
print  s[3:-1]
print  s[0:-3]
```

OUTPUT

psc
comp



When the 2nd value is -1, python stops that many spots from the end.

Open substring.py

string methods

frequently used methods

Name	Use
len()	returns the number of items in the string
find(x)	returns the spot where value x starts in the string - starts searching at spot 0
rfind(x)	returns the spot where value x starts in the string - starts searching at spot len-1

string - len

```
s = "aplus"
print   len(s)
s = "compsci"
print   len(s)
s = ""
print   len(s)
```

OUTPUT

5
7
0

len counts the characters in the string and returns the count.

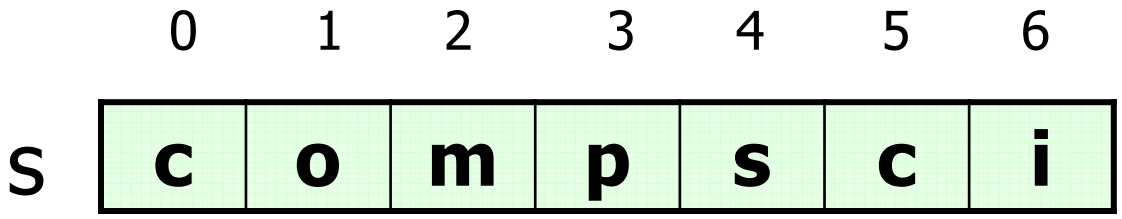
open len.py

string / find

```
s = "apluscompsci"
print  s.find("p")
print  s.find("s")
```

OUTPUT

```
1
4
```



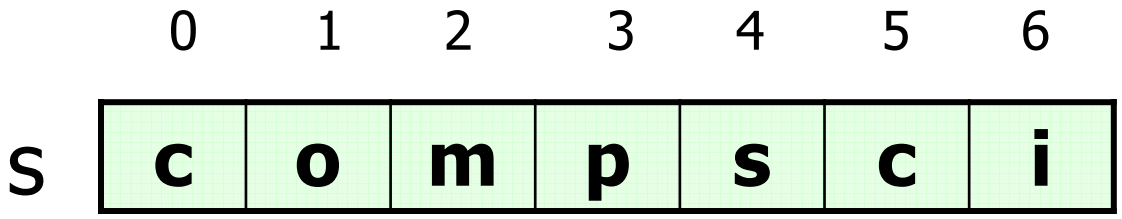
Find searchs a string for a specified value.
Find starts searching at spot 0.

string / find

```
s = "apluscompsci"
print  s.find("c")
print  s.find("m")
```

OUTPUT

5
7



Find searchs a string for a specified value.
Find starts searching at spot 0.

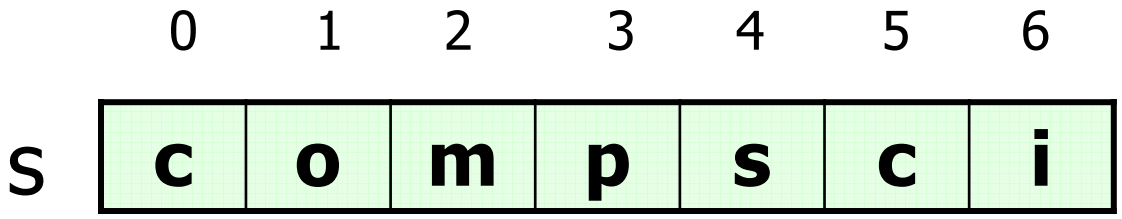
string / find

```
s = "apluscompsci"
print  s.find("x")
print  s.find("a")
```

OUTPUT

-1

0



Find searchs a string for a specified value.
Find starts searching at spot 0.

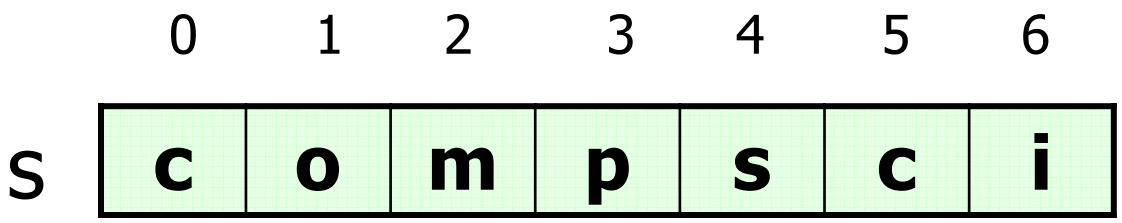
Open find_py

string / rfind

```
s = "apluscompsci"
print  s.rfind("p")
print  s.rfind("s")
```

OUTPUT

8
9



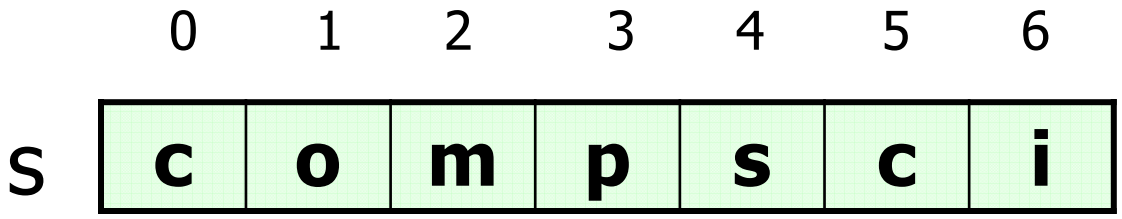
rfind searchs a string for a specified value.
rfind starts searching at spot 0.

string / rfind

```
s = "apluscompsci"
print  s.rfind("c")
print  s.rfind("m")
```

OUTPUT

10
7



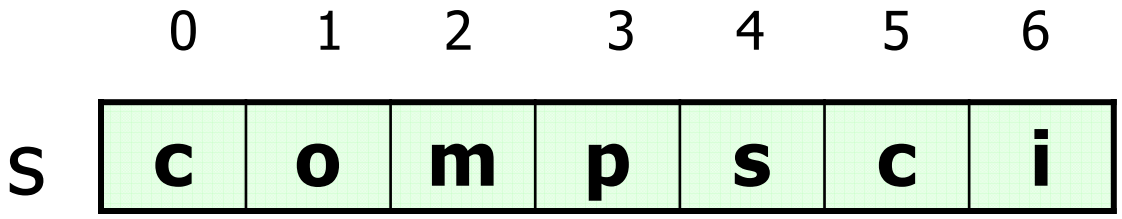
rfind searchs a string for a specified value.
rfind starts searching at spot 0.

string / rfind

```
s = "apluscompsci"
print  s.rfind("c")
print  s.rfind("m")
```

OUTPUT

```
-1
0
```



rfind searchs a string for a specified value.
rfind starts searching at spot 0.

Open find_py

Start work On the string Labs