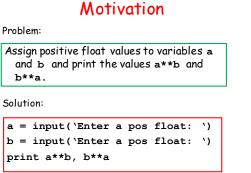
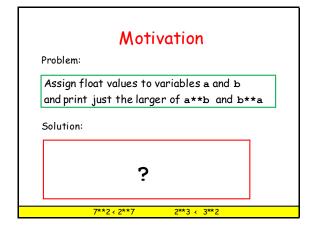
3. Conditional Execution

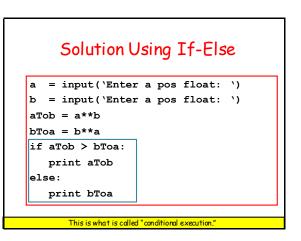
Topics:

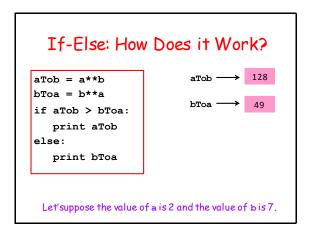
Boolean values Relational operators if statements The Boolean type

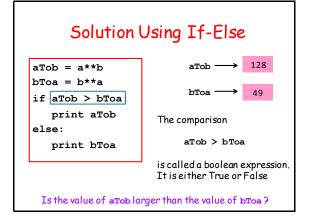
The Boolean type

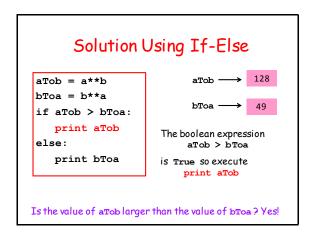


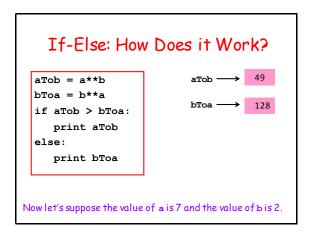


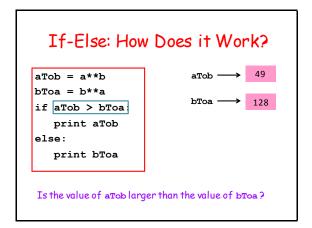


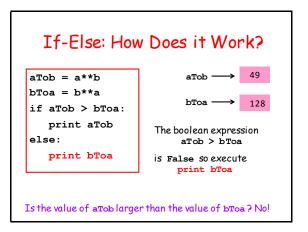


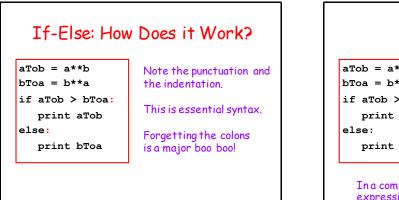


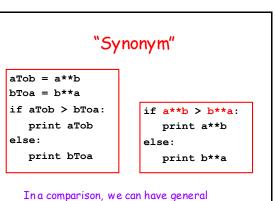




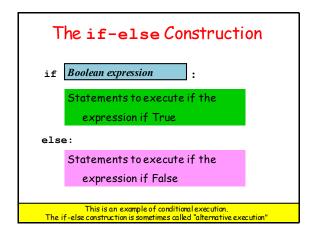


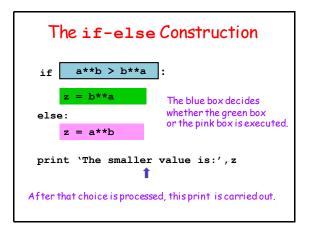


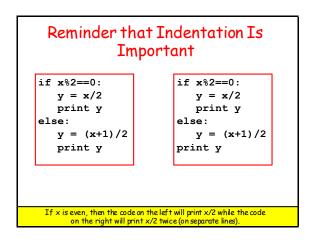


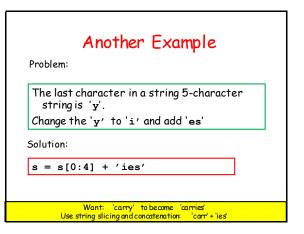


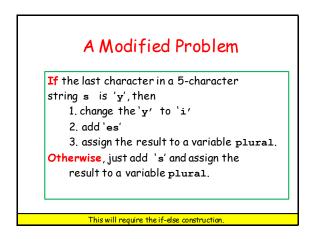
expressions on either side of the "<".

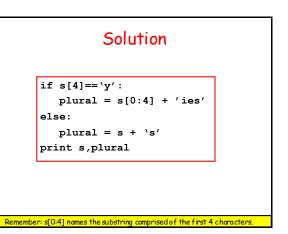














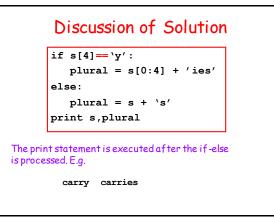
if s[4]==`y':
 plural = s[0:4] + 'ies'
else:
 plural = s + `s'

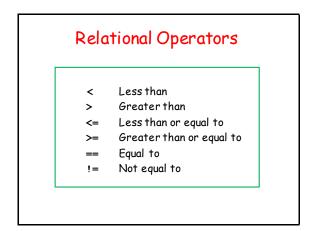
print s,plural

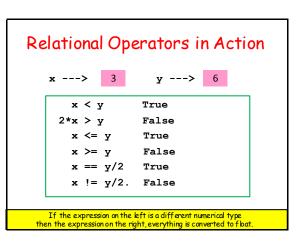


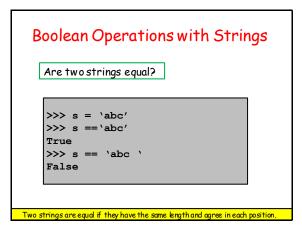
```
If you want to check to see if two expressions have the same value, use == .
```

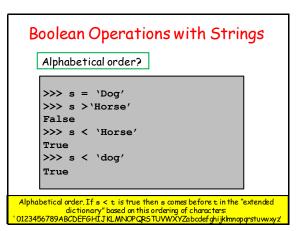
Why? If you say s[4] = y' it looks like an assignment.



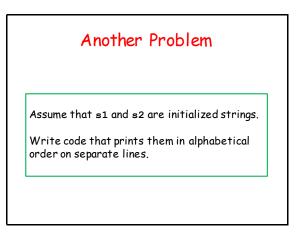


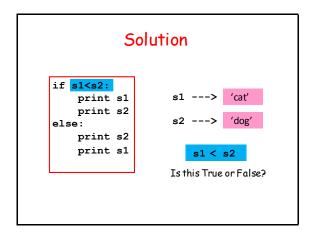


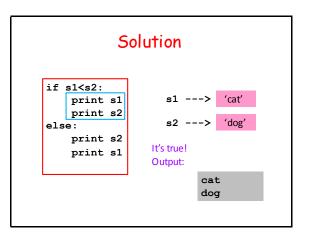


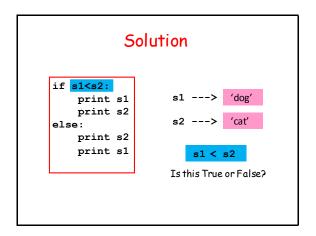


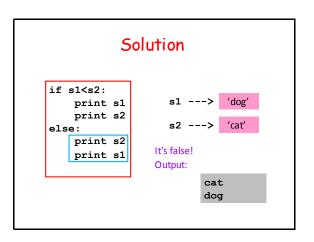
Relational Operators in Action		
x> 'key'	y> 'hockey'	
х < у	False	
х > у	True	
`hoc′+x <= y	True	
ж >= у	True	
x == y[3:]	True	
x != x+' `	True	
Comparisons based on alphabetical order. x <y 'hockey'="" 'key="" because="" before="" come="" dictionary.<="" does="" false="" in="" is="" not="" td="" the=""></y>		

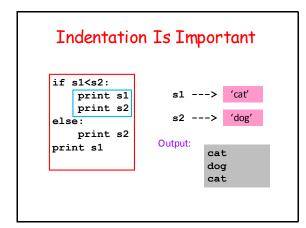




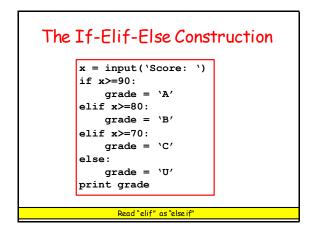


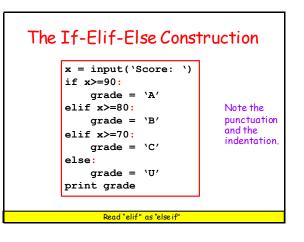


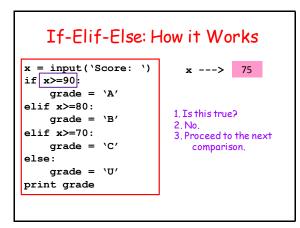


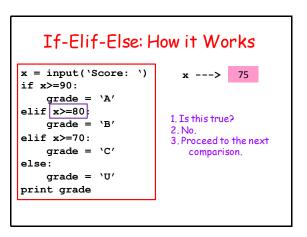


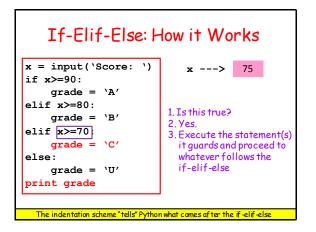
What if You Have More than Two Alternatives?		
For example, given a numerical test score between0 and 100, print out the letter grade equivalent according to these rules:		
A	90-100	
В	80-89	
С	70-79	
U	<70	

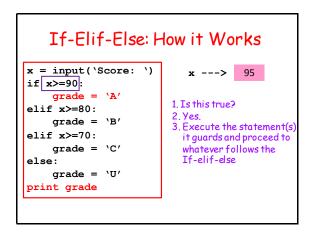


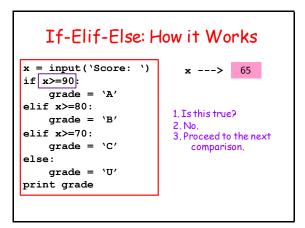


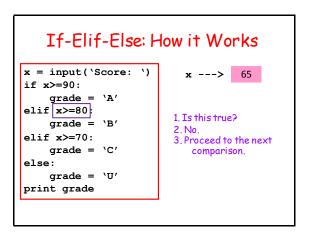


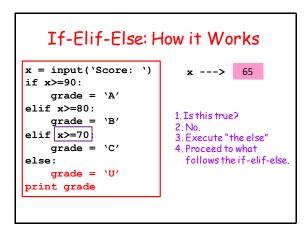


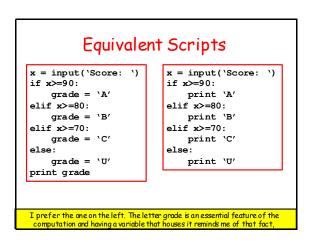


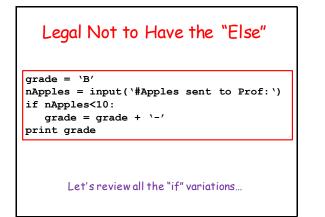


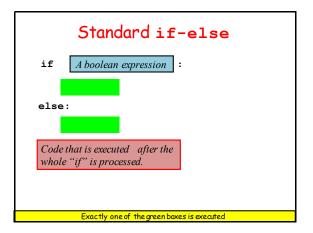


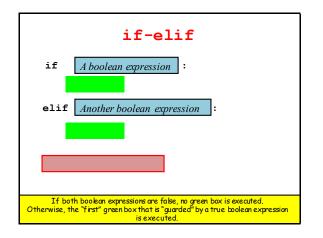


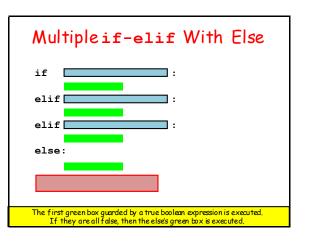


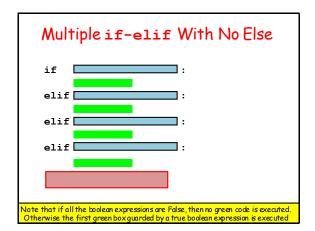


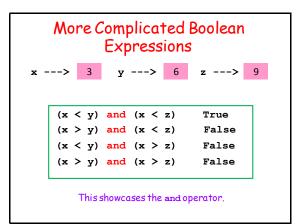


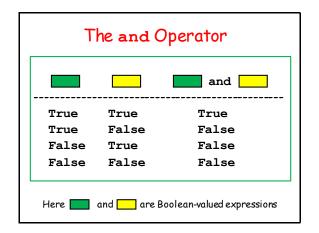


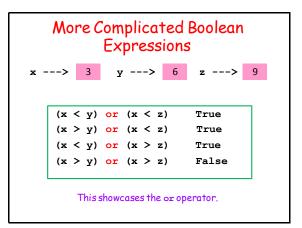


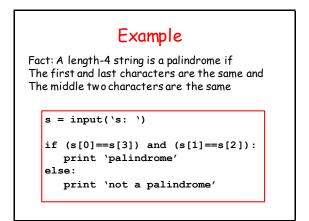


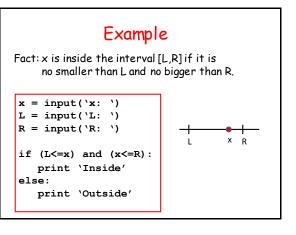


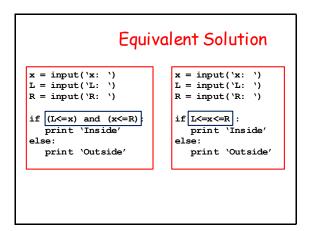


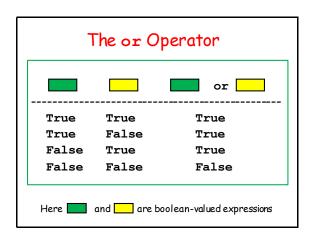










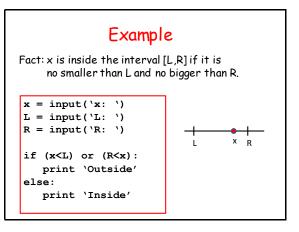


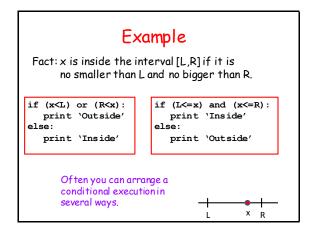
Example

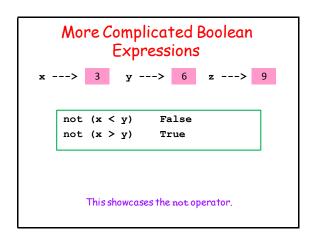
Fact: A length-4 string is a partial palindrome if the first and last characters are the same or if the middle two characters are the same

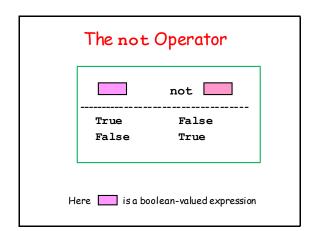
```
s = input('s: ')
```

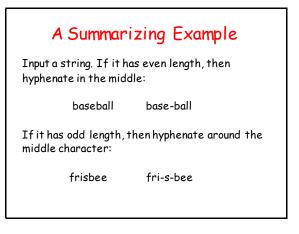
```
if (s[0]==s[3]) or (s[1]==s[2]):
    print `partial palindrome'
else:
    print `not a partial palindrome'
```

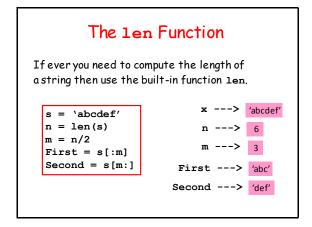


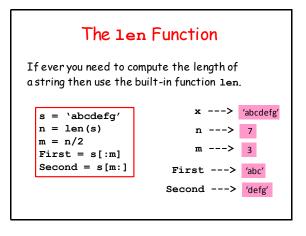




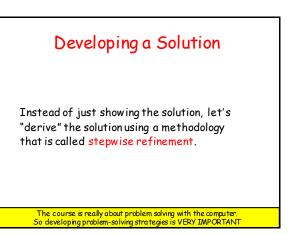


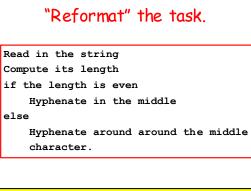




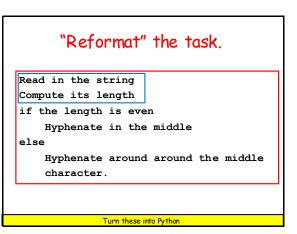


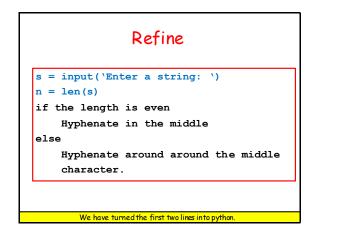
So Let's Solve this Problem Input a string. If it has even length, then hyphenate in the middle: baseball base-ball If it has odd length, then hyphenate around the middle character: frisbee fri-s-bee

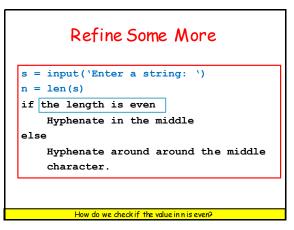


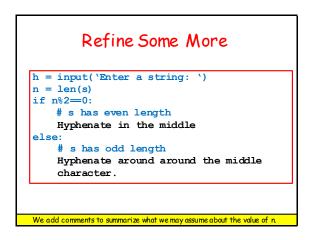


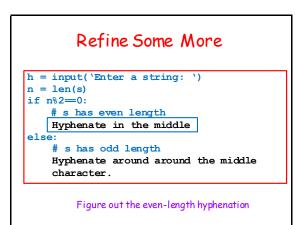
Still in English, but it looks a little more like python

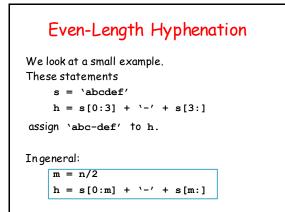


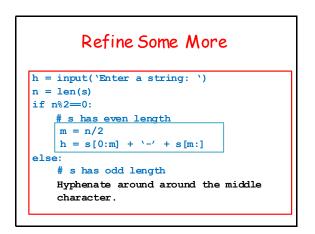














m = n/2 h = s[0:m] + '-' + s[m:]else:

s has odd length

Hyphenate around around the middle character.

Figure out the odd-length hyphenation

