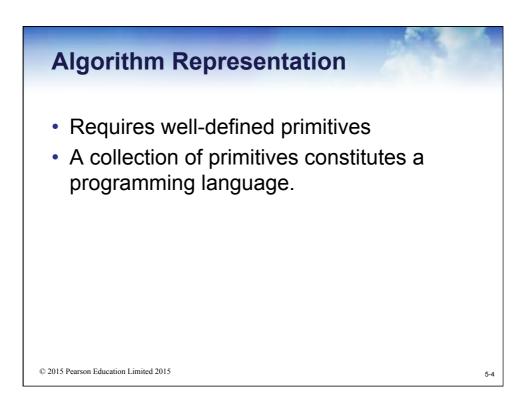
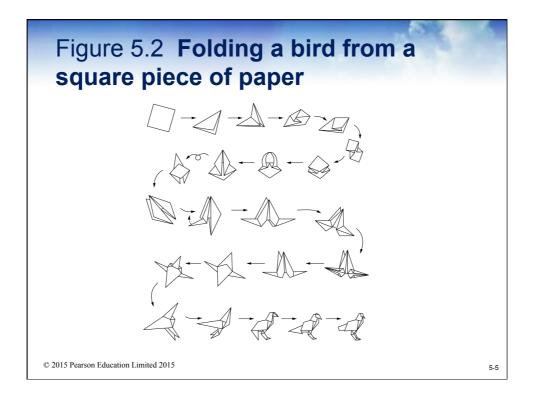
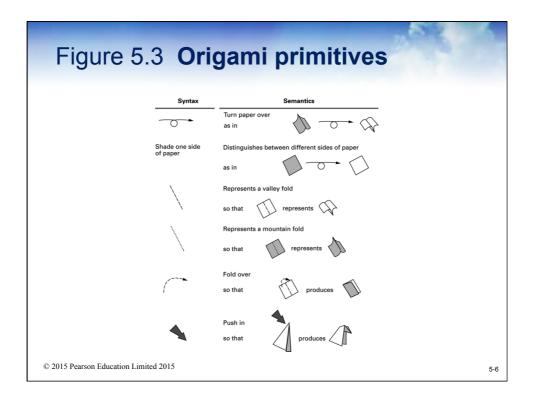
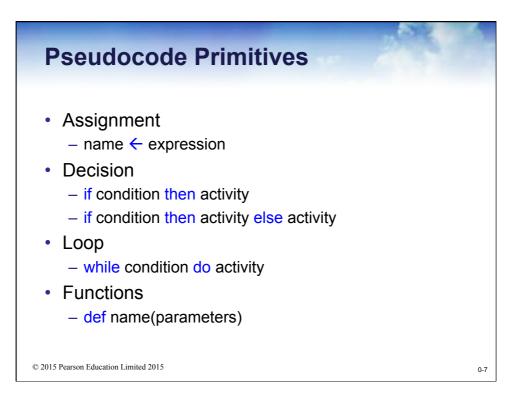


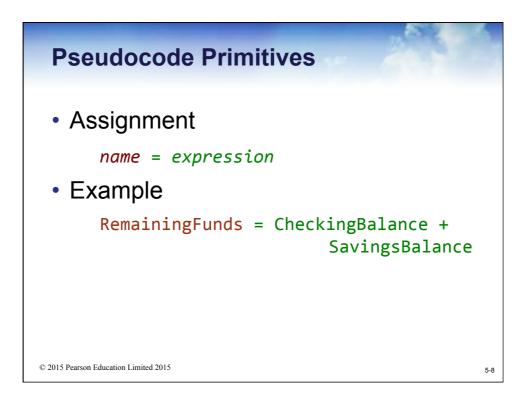
<section-header><text><text>

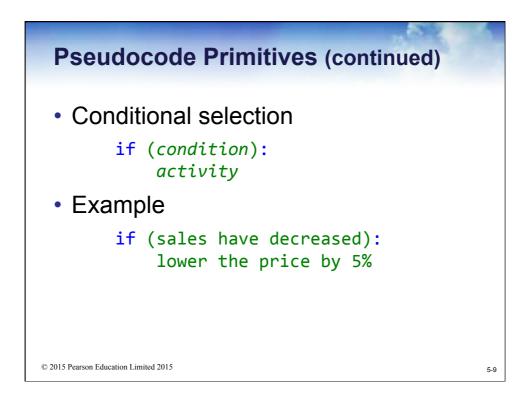


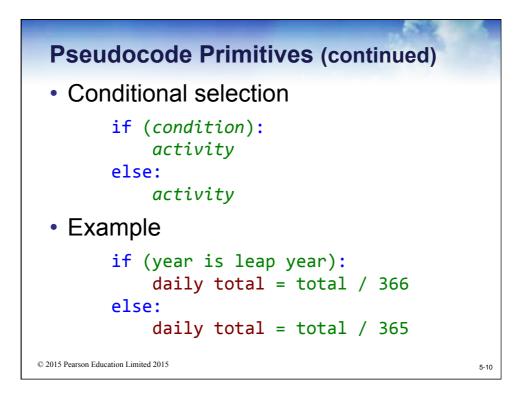


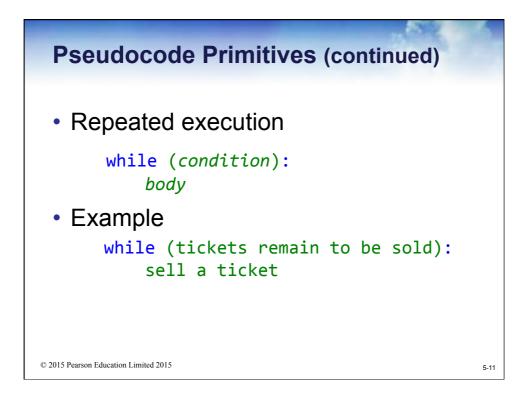


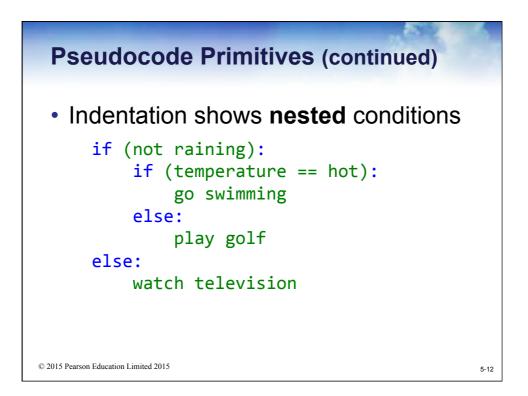


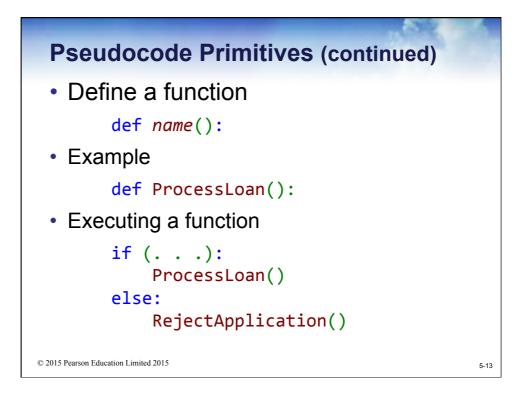


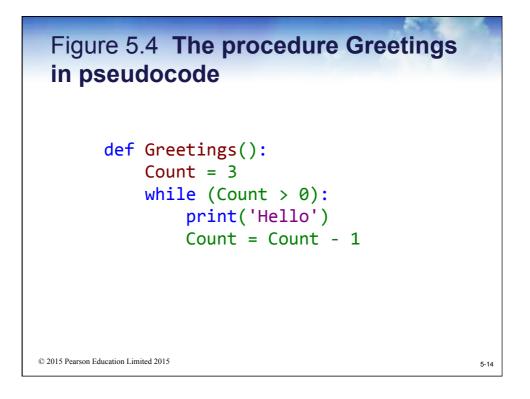


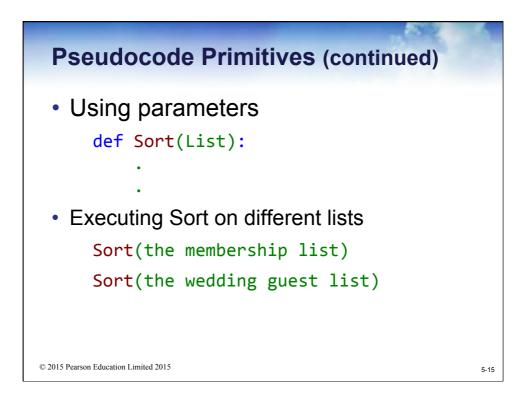


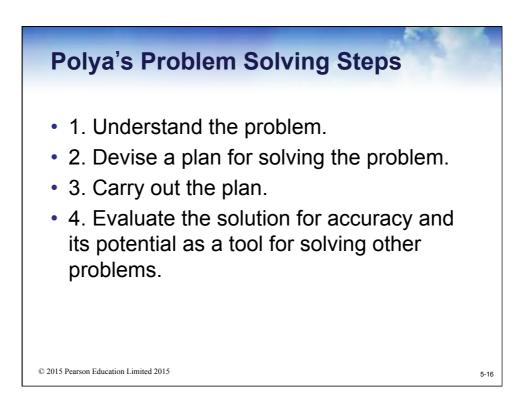


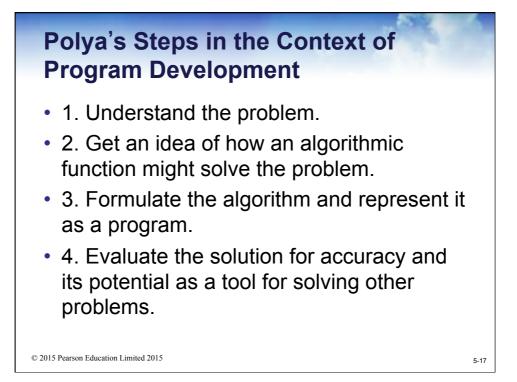


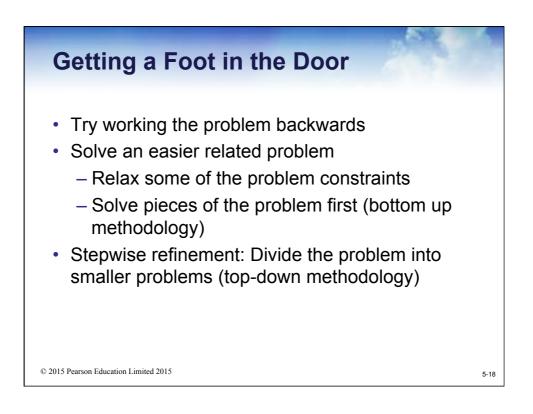












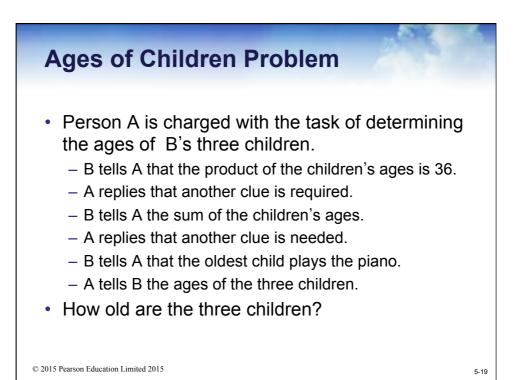
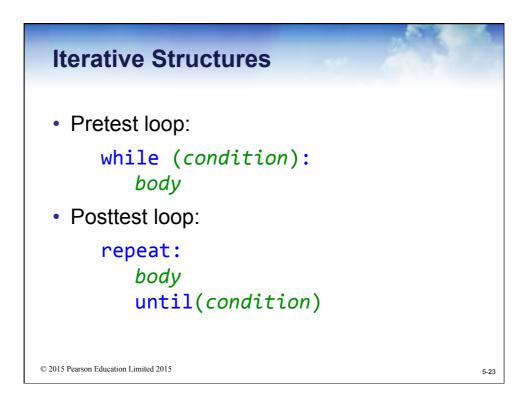


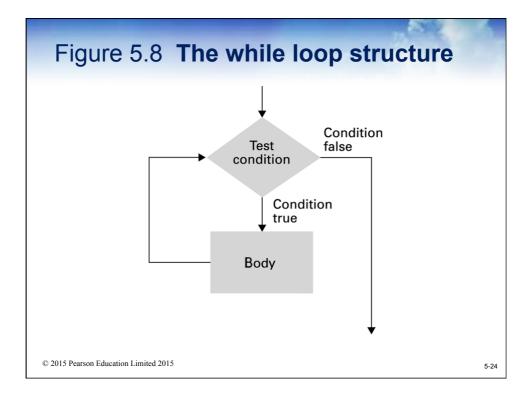
Figure 5.5	17	
a. Triples whose product is 36	b. Sums of triples fr	om part (a)
(1,1,36) (1,6,6)	1 + 1 + 36 = 38	1 + 6 + 6 = 13
() –) –) –) –) –)	1 + 2 + 18 = 21	
(1,3,12) (2,3,6)	1 + 3 + 12 = 16 1 + 4 + 9 = 14	
(1,4,9) (3,3,4)	1 + 4 + 9 = 14	3 + 3 + 4 = 10
© 2015 Pearson Education Limited 2015		5-20

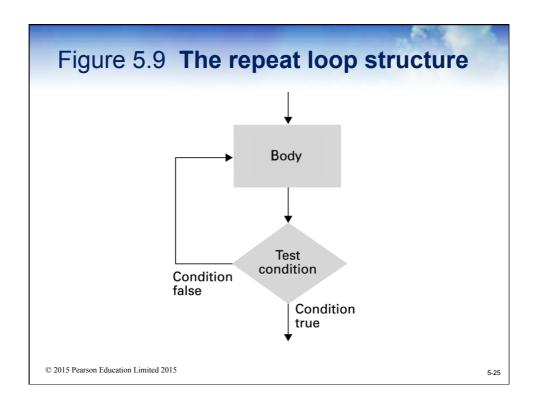
Figure 5.6 **The sequential search** algorithm in pseudocode

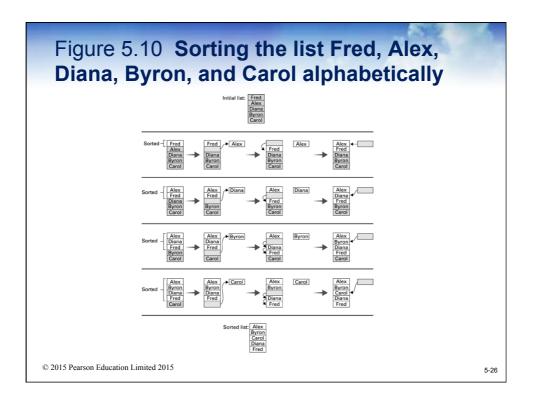
```
def Search (List, TargetValue):
if (List is empty):
    Declare search a failure
else:
    Select the first entry in List to be TestEntry
while (TargetValue > TestEntry and entries remain):
    Select the next entry in List as TestEntry
if (TargetValue == TestEntry):
    Declare search a success
else:
    Declare search a failure
```

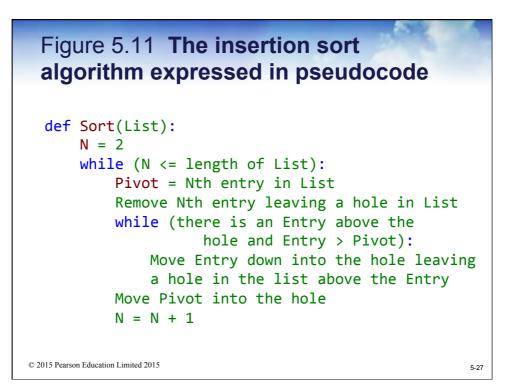
<section-header><text><text><text><text><text><text><text>

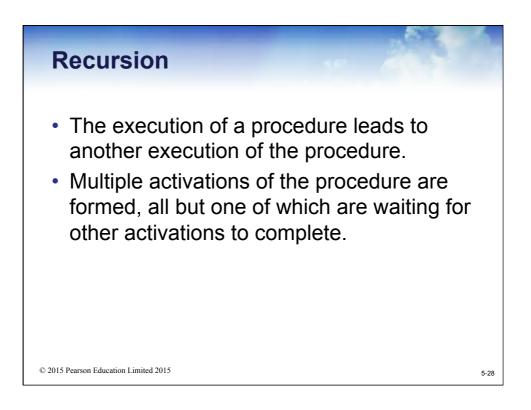












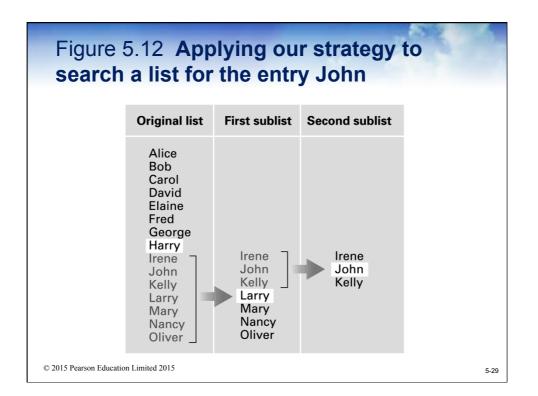
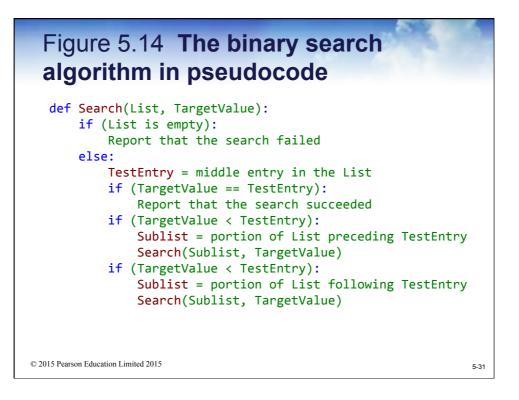
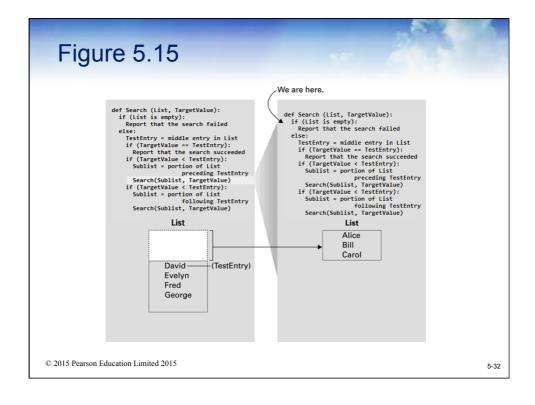
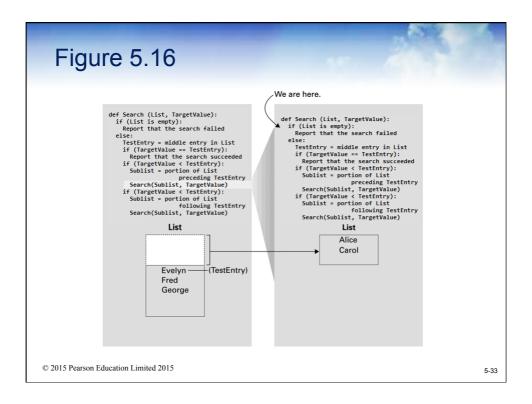
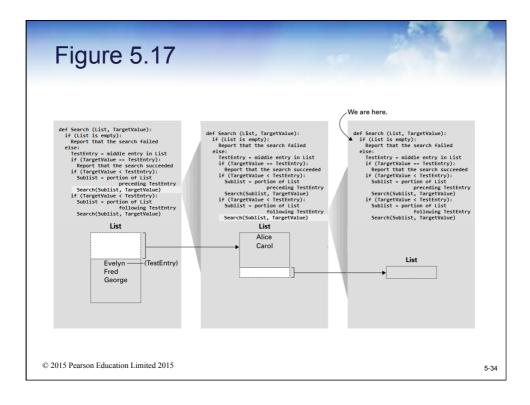


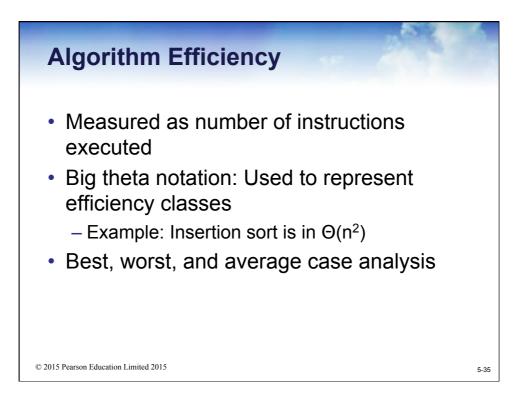
Figure 5.13 A first draft of the binary search technique if (List is empty): Report that the search failed else: TestEntry = middle entry in the List if (TargetValue == TestEntry): Report that the search succeeded if (TargetValue < TestEntry):</pre> Search the portion of List preceding TestEntry for TargetValue, and report the result of that search if (TargetValue > TestEntry): Search the portion of List following TestEntry for TargetValue, and report the result of that search © 2015 Pearson Education Limited 2015 5-30

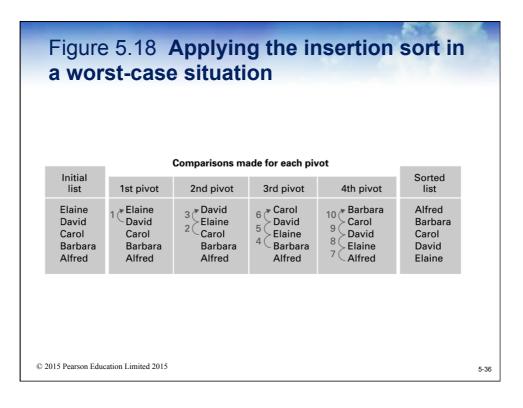


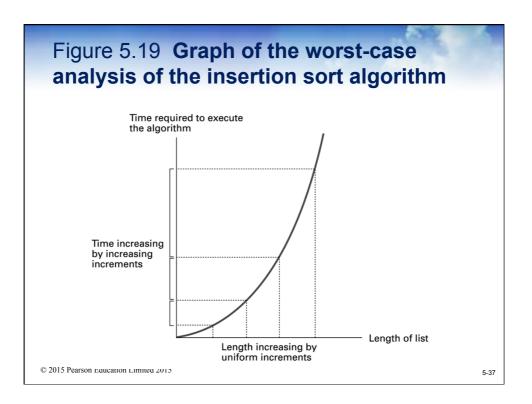


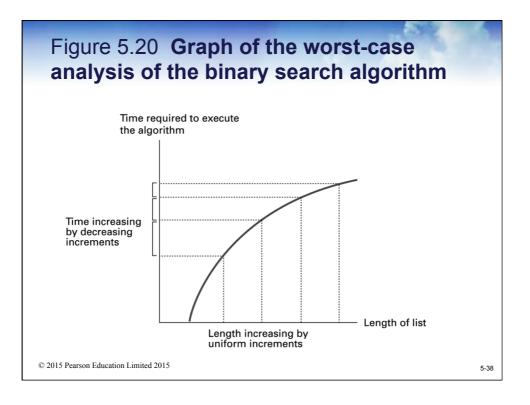


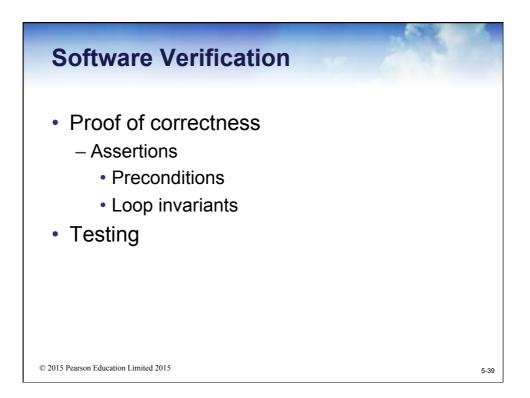


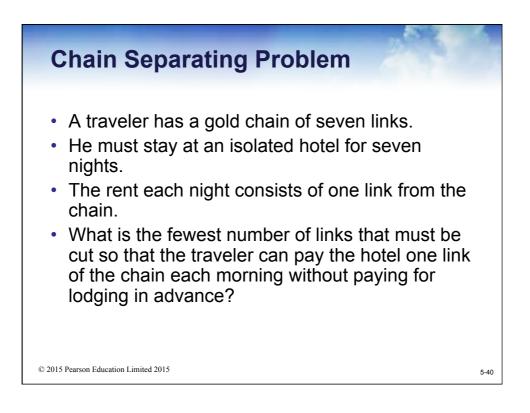


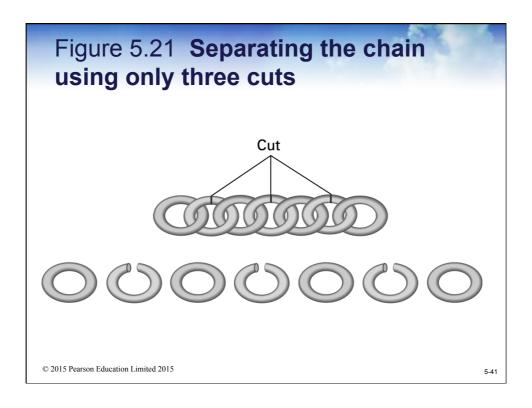












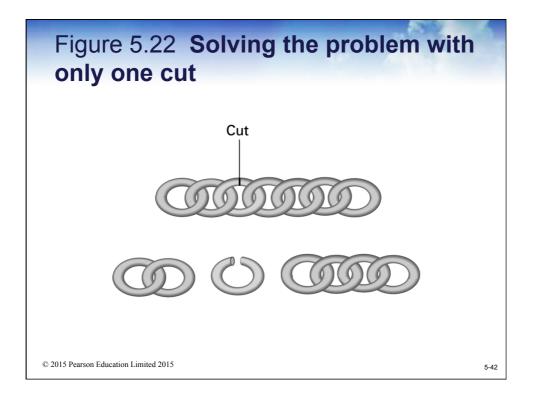


Figure 5.23 The assertions associated with a typical while structure

