

## 5.12 Conditionals

### Exercise 1

Logical operators can simplify nested conditional statements. For example, can you rewrite this code using a single if statement?

```
if (x > 0 && x < 10) {  
    System.out.println("positive single digit number.");  
}
```

### Exercise 2

For the following program:

1. Draw a stack diagram that shows the state of the program the second time zoop is invoked.

main	
zoop	just for
ping	any not more
clink	It's breakfast

2. What is the complete output?  
just for  
any not more  
It's breakfast  
!

### Exercise 3

Draw a stack diagram that shows the state of the program in Section [5.8](#) after main invokes nLines with the parameter n == 4, just before the last invocation of nLines returns.

main		
countdown	n	4
countdown	n	3
countdown	n	2
countdown	n	1