# Kristina Saha Professor Adam Cannon Intro to CS/ Programming In Java

# Chapter 5 Problems

# R5.1

# ALL VARIABLES STAY THE SAME!

# r = 2

# k=1

# 

# The appointment overlaps.

# Test 2 Start 1 = 10 Start 2 = 12 End 1 = 11 End 2 = 13 If 10>12 s=10Else, $s = 12 \Rightarrow s=12$ If 11<13 $e = 11 \Rightarrow e=11$ If 12<11 The appointment overlaps Else,

The appointments don't overlap.

# Test Case 1

Start 1 = 18 Start 2 = 22

End 1 = 20

End 2 = 24

If 18>22

s=18

Else

 $s = 22 \Rightarrow s = 22$ 

If 20<24

 $e=20 \Rightarrow e=20$ 

If 22<20

The appointments overlap

Else,

The appointments don't overlap

# Test Case 2

Start 1 = 9

Start 2 = 10

End 1 = 10

End 2 = 11

If 9>10

s = 9

Else

 $s = 10 \Rightarrow s = 10$ 

If 10<11

 $e = 10 \Rightarrow e = 10$ 

If s<e ...

You will get an error message because s=e !!!

# Test Case 3

```
Start 1 = 5
Start 2 = 4
End 1 = 7
End 2 = 6

If 5>4
s = 5 ⇒ s=5
If 7<6
e = 7
Else
e=6 ⇒ e=6
If 5<6
```

The appointment overlaps.