else if statements

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Java

else if statements

What if you wrote a program that asked "Who was buried in General Grant's Tomb?"

User's could respond:

- -Grant
- -GRANT
- -grant....all are correct.

Using what you know...

```
Grant
nesting if statements
if(guess.equals("Grant"))
          System.out.print("correct");
                                                                grant
else
          if(guess.equals("grant"))
                     System.out.print("correct");
                                                                          GRANT
          else
                     if(guess.equals("GRANT"))
                                System.out.print("correct");
                     else
                                System.out.print("wrong");
                     } // endif
          } // endif
} //endif
```

Using what you know...

```
nesting if statements
if(guess.equals("Grant"))
           System.out.print("correct");
else
{
           if(guess.equals("grant"))
                       System out.print("correct");
                                                                      This is called
           else
                      if(guess.equals("GRANT"))
                                                                      "nesting" if
                                  System.out.print("correct");
                                                                       statements
                       else
                                  System.out.print("wrong");
                       } // endif
           } // endif
} //endif
```

else if statements

- Nesting can be in *if* part or *else* part.
- Nesting can be avoided with the use of *else if(condition)*.

```
if(boolean)
else if(boolean)
                            only one of these
                            will fire
else if(boolean)
else
```

```
if(boolean)
else if(boolean)
                          once one boolean
                          is true, the others
                          are skipped
else if(boolean)
else
```

```
if(boolean)
else if(boolean)
                          REAL important
else if(boolean)
                           it is optional!
else
```

```
if(boolean)
else if(boolean)
                           Always take the
else if(boolean)
                           option
else
```

```
if(boolean)
else if(boolean)
                          guarantees that
else if(boolean)
                          one block of
                          code fires
else
```

```
if(boolean)
else if(boolean)
                         without it, if all
else if(boolean)
                         booleans are
                         false, then
                         nothing happens
```

```
if(boolean)
else if(boolean)
                          REALLY hard to
else if(boolean)
                          debug
```

Lab

- Make 1, labeled, recycling Rectangle
- The dimensions of the Rectangle should be
 - \circ width = 50
 - \circ height = 100
- Randomly place the Rectangle on one of the "roads"
- Color the Rect as follows:
 - o first road red
 - second road white
 - o third road blue
 - o all other roads green
- the Rectangle should stay between the lines (stay on the "road")