**JCheckbox**

Checkboxes are used for choices where a user can pick more than one option. This is good for "Pick any or all" type questions. They allow a user to select any or all of the checkboxes.

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| class Check extends JPanel implements itemListener{  boxes = **new** JCheckBox[size]; //an array of checkboxes    **for** (**int** i=0;i<size;i++){//loop through each of the checkboxes  boxes[i] = **new** JCheckBox();//initialize the boxes  boxes[i].setSelected(**false**);//make the boxes unselected  boxes[i].addItemListener(**this**);//allows us to check if the box is checked  add(boxes[i]);  }  **public** **void** itemStateChanged(ItemEvent e) {//part of the itemListener interface, checks boxes  **int** numberChecked=0;  **for** (**int** i=0;i<size;i++){//loop through each of the checkboxes  **if** (boxes[i].isSelected()) {//if it is selected  ++numberChecked;//here we are counting how many boxes are checked  }  }  **if** (numberChecked > toCheck) {//if too many boxes are checked  upperText.setText((numberChecked - toCheck) + " fewer!" );  }  **else** {//if not enough boxes are checked  upperText.setText((toCheck - numberChecked) + " more.");  }  }  } |

**JRadioButton**

A radio button is a button that allows only one option from a list to be chosen. This is useful for questions that can only have one answer per person. Yes and No questions are an example, you can be yes or no, not both.

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| class Radio extends JPanel implements ActionListener{  JRadioButton[] buttons = new JRadioButton[5];//array of buttons  JPanel panel = new JPanel();//panel to put all the buttons on  ButtonGroup group = new ButtonGroup();/\*putting the buttons in a group is how we know if one button is already selected\*/  **for** (**int** i = 0 ; i < buttons.length ; i++){//loop to initialize all the buttons  buttons[i] = **new** JRadioButton("Button "+i);//creates the button, and names it  buttons[i].addActionListener(**this**);//adds an actionlistener so we can tell if it is hit  buttons[i].setMnemonic(KeyEvent.VK\_1 + i-1);/\*allows you to press a key instead of click \*\*HAVE TO PRESS ALT FOR IT TO WORK\*\*\*/  buttons[i].setAlignmentX(CENTER\_ALIGNMENT);  panel.add(buttons[i]);//adds the button to the panel  group.add(buttons[i]);//adds the button to the group so we can't select more than one  }  **public** **void** actionPerformed(ActionEvent e){//called when you click a button  **if**(buttons[choice].isSelected()){//checks if you selected the right button  label.setText("You hit the right button");//congratulates you  }  **else**{//if it isn't the right button  label.setText("That was the wrong button, please press button "+choice);/\*tells you to fix your mistake\*/  }  }  } |