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# Checkboxes: Java Source Code

## Line 08: import android.widget.CheckBox;

A checkbox is a specific type of two-states button that can be either checked or unchecked.

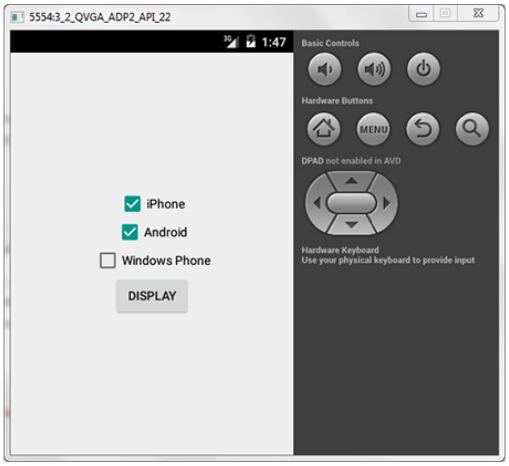
## Line 29: if ( ((CheckBox) v).isChecked( ) ) {

The method is used to check whether the particular `CheckBox` is checked or unchecked.

## Line 46: StringBuffer result = new StringBuffer( );

This class is a modifiable sequence of characters for use in creating strings, where all accesses are synchronized. The majority of the modification methods on this class return this so that method calls can be chained together. For example:

```
new StringBuffer("a").append("b").append("c").toString( )
```

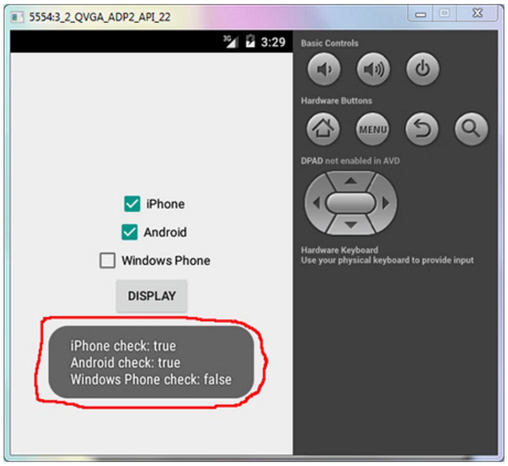


☑ iPhone
☑ Android
□ Windows Phone

Selecting
iPhone &
Android and

pushing
DISPLAY

⇒



☑ iPhone
☑ Android
□ Windows Phone

```
iPhone check: true
Android check: true
Windows Phone check: false
```

MyApplication/app/src/main/java/com/example/wenchen/myapplication/MainActivity.java

```
01 package com.example.wenchen.myapplication;
02
03 import android.app.Activity;
04 import android.os.Bundle;
```

```
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;

public class MainActivity extends Activity {
  private CheckBox chkIos, chkAndroid, chkWindows;
  private Button btnDisplay;

  @Override
  public void onCreate( Bundle savedInstanceState ) {
    super.onCreate( savedInstanceState );
    setContentView( R.layout.activity_main );
    addListenerOnChkIos( );
    addListenerOnButton( );
  }

  public void addListenerOnChkIos( ) {
    chkIos = (CheckBox) findViewById( R.id.chkIos );
    chkIos.setOnClickListener( new OnClickListener( ) {
      @Override
      public void onClick( View v ) {
        // Is chkIos checked?
        if ( ((CheckBox) v).isChecked( ) ) {
          Toast.makeText( MainActivity.this,
            "Bro, try Android :)", Toast.LENGTH_LONG ).show( );
        }
      }
    });
  }

  public void addListenerOnButton( ) {
    chkIos     = (CheckBox) findViewById( R.id.chkIos     );
    chkAndroid = (CheckBox) findViewById( R.id.chkAndroid );
    chkWindows = (CheckBox) findViewById( R.id.chkWindows );
    btnDisplay = (Button)   findViewById( R.id.btnDisplay );
    btnDisplay.setOnClickListener( new OnClickListener( ) {
      // Run when button is clicked.
      @Override
      public void onClick( View v ) {
        StringBuffer result = new StringBuffer( );
        result.append( "iPhone check: " ).append( chkIos.isChecked( ) );
        result.append( "\nAndroid check: " ).append( chkAndroid.isChecked( ) );
        result.append( "\nWindows Phone check: " ).append( chkWindows.isChecked( ) );
        Toast.makeText( MainActivity.this, result.toString( ),
          Toast.LENGTH_LONG ).show( );
      }
    });
  }
}
```

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