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Mega SorteAPP

ACTIVITY_MAIN.XML

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/ScrlFundo"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/fundoSCR"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_gravity="center|center_horizontal"
        tools:context="com.android.application.MainActivity">

        <ImageView
            android:id="@+id/imageView"
            android:layout_width="0dp"
            android:layout_height="200dp"
            android:layout_marginStart="32dp"
            android:layout_marginLeft="32dp"
            android:layout_marginEnd="32dp"
            android:layout_marginRight="32dp"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:srcCompat="@drawable/trevo5" />

        <Button
            android:id="@+id/b_generate"
            android:layout_width="150dp"
            android:layout_height="100dp"
            android:layout_marginStart="8dp"
            android:layout_marginLeft="8dp"
            android:layout_marginTop="8dp"
            android:layout_marginEnd="8dp"
            android:layout_marginRight="8dp"
            android:text="Jogar"
            android:textColor="#4CAF50"
            android:textColorHint="@color/cardview_light_background"
            android:textSize="35sp"
            android:textStyle="bold|italic"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/et_max" />
    </androidx.constraintlayout.widget.ConstraintLayout>
</ScrollView>
```

```

<EditText
    android:id="@+id/et_min"
    android:layout_width="272dp"
    android:layout_height="83dp"
    android:layout_marginStart="8dp"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="32dp"
    android:layout_marginEnd="8dp"
    android:layout_marginRight="8dp"
    android:ems="10"
    android:hint="min"
    android:inputType="number"
    android:textColor="#1A9A0C"
    android:textSize="36sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/txtJogar" />

<EditText
    android:id="@+id/et_max"
    android:layout_width="268dp"
    android:layout_height="83dp"
    android:layout_below="@+id/et_min"
    android:layout_marginStart="8dp"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginRight="8dp"
    android:ems="10"
    android:hint="max"
    android:inputType="number"
    android:textColor="#1A9A0C"
    android:textSize="36sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/et_min" />

<TextView
    android:id="@+id/tv_output"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="24dp"
    android:layout_marginEnd="8dp"
    android:layout_marginRight="8dp"
    android:text="Clique para jogar"
    android:textColor="#1A9A0C"
    android:textSize="50sp"
    android:textStyle="bold|italic"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/b_generate" />

<TextView
    android:id="@+id/txtBemVindo"
    android:layout_width="0dp"

```

```

        android:layout_height="wrap_content"
        android:layout_marginStart="32dp"
        android:layout_marginLeft="32dp"
        android:layout_marginTop="24dp"
        android:layout_marginEnd="32dp"
        android:layout_marginRight="32dp"
        android:padding="@dimen/activity_horizontal_margin"
        android:text="Seja bem vindo ao MegaSorte"
        android:textColor="#1A9A0C"
        android:textSize="50sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/imageView" />

<TextView
    android:id="@+id/txtJogar"
    android:layout_width="0dp"
    android:layout_height="173dp"
    android:layout_marginStart="32dp"
    android:layout_marginLeft="32dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="32dp"
    android:layout_marginRight="32dp"
    android:fontFamily="sans-serif-condensed-medium"
    android:padding="@dimen/activity_vertical_margin"
    android:text="Gere seus números e aposte na sua sorte.  Insira um
número mínimo e um número máximo nos campos abaixo."
    android:textSize="40sp"
    android:textStyle="normal|italic"
    app:autoSizeTextType="none"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/txtBemVindo"
    tools:ignore="UnknownId" />

</androidx.constraintlayout.widget.ConstraintLayout>
</ScrollView>

```

PACKAGE COM.EXAMPLE.MEGASORTESP

```
package com.example.megasortesp;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
import android.widget.TextView;
```

```
import java.util.Random;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    EditText et_min, et_max;
```

```

Button b_generate;
TextView tv_output;

Random r;
int min, max, output;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate( savedInstanceState );
    setContentView( R.layout.activity_main );

    r = new Random( );

    et_min = (EditText) findViewById( R.id.et_min );
    et_max = (EditText) findViewById( R.id.et_max );
    b_generate = (Button) findViewById( R.id.b_generate );
    tv_output = (TextView) findViewById( R.id.tv_output );

    b_generate.setOnClickListener( new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            String tempMin, tempMax;
            tempMin = et_min.getText().toString();
            tempMax = et_max.getText().toString();
            if(!tempMin.equals( "" ) && !tempMax.equals( "" )) {
                min = Integer.parseInt( et_min.getText().toString() );
                max = Integer.parseInt( et_max.getText().toString() );
                if (max > min) {
                    output = r.nextInt((max - min) +1) + min;
                    tv_output.setText("Número sorteado foi: " + output);
                }
            }
        }
    } );
}
}

```

BuildConfig

```

package com.example.megasortesp;

public final class BuildConfig {
    public static final boolean DEBUG = Boolean.parseBoolean("true");
    public static final String APPLICATION_ID = "com.example.megasortesp";
    public static final String BUILD_TYPE = "debug";
    public static final int VERSION_CODE = 1;
    public static final String VERSION_NAME = "1.0";
}

```

build.gradle

```
buildscript {  
    repositories {  
        google()  
        jcenter()  
    }  
    dependencies {  
        classpath 'com.android.tools.build:gradle:4.1.0'  
  
        // NOTE: Do not place your application dependencies here; they belong  
        // in the individual module build.gradle files  
    }  
}  
  
allprojects {  
    repositories {  
        google()  
        jcenter()  
    }  
}  
  
task clean(type: Delete) {  
    delete rootProject.buildDir  
}
```

Values.xml

```
<resources>  
    <string name="app_name">MegaSorteSP</string>  
    <string name="title_activity_login">Sign in</string>  
  
</resources>
```

Styles.xml

```
<resources>  
  
    <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">  
        <!-- Customize your theme here. -->  
        <item name="colorPrimary">@color/colorPrimary</item>  
        <item name="colorPrimaryDark">@color/colorPrimaryDark</item>  
        <item name="colorAccent">@color/colorAccent</item>  
  
    </style>
```

</resources>

Dimens.xml

<resources>

<!-- Default screen margins, per the Android Design guidelines. -->

<dimen name="activity_horizontal_margin">16dp</dimen>

<dimen name="activity_vertical_margin">16dp</dimen>

</resources>

Color.xml

<?xml version="1.0" encoding="utf-8"?>

<resources>

<color name="colorPrimary">#0AED16</color>

<color name="colorPrimaryDark">#099710</color>

<color name="colorAccent">#0AED16</color>

</resources>

Build.gradle

apply plugin: 'com.android.application'

android {

compileSdkVersion 29

buildToolsVersion "29.0.3"

defaultConfig {

applicationId "com.example.megasortesp"

minSdkVersion 16

targetSdkVersion 29

versionCode 1

versionName "1.0"

testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"

}

buildTypes {

release {

minifyEnabled false

proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'

}

}

}

dependencies {

implementation fileTree(dir: 'libs', include: ['*.jar'])

implementation 'androidx.appcompat:appcompat:1.1.0'

implementation 'androidx.constraintlayout:constraintlayout:1.1.3'

implementation 'com.google.android.material:material:1.1.0'

implementation 'androidx.annotation:annotation:1.1.0'

implementation 'androidx.lifecycle:lifecycle-extensions:2.2.0'

implementation 'androidx.legacy:legacy-support-v4:1.0.0'

testImplementation 'junit:junit:4.12'

androidTestImplementation 'androidx.test.ext:junit:1.1.1'

androidTestImplementation 'androidx.test.espresso:espresso-core:3.2.0'

}

