```
ACTIVITY MAIN.XML
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/ScrllFundo"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <androidx.constraintlayout.widget.ConstraintLayout</pre>
        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" />

```
<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'
}
```