```java
package com.example.game;

import android.app.Activity;
import android.content.Intent;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.CompoundButton;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.RadioButton;
import android.widget.TextView;

import androidx.activity.result.ActivityResultLauncher;
import androidx.activity.result.contract.ActivityResultContracts;
import androidx.appcompat.app.AppCompatActivity;

import java.lang.reflect.Array;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

enum Type {
    CIRCLE, SQUARE
}

public class MainActivity extends AppCompatActivity {
    private RadioButton circleRadioButton;
    private RadioButton squareRadioButton;
    private Type type;
    private ActivityResultLauncher<Intent> activityResultLauncher;

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

        circleRadioButton = findViewById(R.id.circle);
        squareRadioButton = findViewById(R.id.square);

        circleRadioButton.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton buttonView, boolean
isChecked) {
                if (isChecked) {
                    type = Type.CIRCLE;
                    squareRadioButton.setChecked(false);
                }
            }
        });

```

```java
            squareRadioButton.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
                @Override
                public void onCheckedChanged(CompoundButton buttonView, boolean
isChecked) {
                    if (isChecked) {
                        type = Type.SQUARE;
                        circleRadioButton.setChecked(false);
                    }
                }
            });

        ImageButton imageButton = findViewById(R.id.startBtn);
        imageButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this, Sub.class);
                intent.putExtra("type", type.name());
                activityResultLauncher.launch(intent);
            }
        });

        Map<String, Integer> mapper = new HashMap<>();
        mapper.put("circle1", R.drawable.shape01);
        mapper.put("circle2", R.drawable.shape02);
        mapper.put("square1", R.drawable.shape03);
        mapper.put("square2", R.drawable.shape04);
        mapper.put("triangle2", R.drawable.shape05);
        mapper.put("triangle1", R.drawable.shape06);
        activityResultLauncher = registerForActivityResult(new
ActivityResultContracts.StartActivityForResult(), result -> {
                if (result.getResultCode() == Activity.RESULT_OK) {
                    Intent data = result.getData();
                    assert data != null;
                    String clicked1 = data.getStringExtra("clicked1");
                    String clicked2 = data.getStringExtra("clicked2");
                    LinearLayout layout = findViewById(R.id.selectedResult);
                    layout.setBackgroundColor(Color.BLUE);
                    layout.removeAllViews(); // 기존의 이미지뷰 제거

                    if (!clicked1.isEmpty()) {
                        ImageView imageView1 = new ImageView(this);
                        imageView1.setLayoutParams(new
LinearLayout.LayoutParams(LinearLayout.LayoutParams.WRAP_CONTENT,
LinearLayout.LayoutParams.WRAP_CONTENT, 1.0f));
                        imageView1.setImageResource(mapper.get(clicked1));
                        layout.addView(imageView1);
                    }

                    if (!clicked2.isEmpty()) {
                        ImageView imageView2 = new ImageView(this);
                        imageView2.setLayoutParams(new
LinearLayout.LayoutParams(LinearLayout.LayoutParams.WRAP_CONTENT,
LinearLayout.LayoutParams.WRAP_CONTENT, 1.0f));
                        imageView2.setImageResource(mapper.get(clicked2));
                        layout.addView(imageView2);
```

```java
                }

                TextView textView = findViewById(R.id.resultText);
                int c1 = getResources().getIdentifier(clicked1, "id",
    getPackageName());
                int c2 = getResources().getIdentifier(clicked2, "id",
    getPackageName());
                textView.setText(check(c1, c2) ? "맞았습니다" : "틀렸습니다");
            }
        });
    }

    public boolean check(int c1, int c2) {

        List<Integer> circles = Arrays.asList(R.id.circle1, R.id.circle2);
        List<Integer> squares = Arrays.asList(R.id.square1, R.id.square2);
        if (type == Type.CIRCLE && circles.contains(c1) &&
    circles.contains(c2)) {
            return true;
        }
        if (type == Type.SQUARE && squares.contains(c1) &&
    squares.contains(c2)) {
            return true;
        }
        return false;
    }
}
```

```java
package com.example.game;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.graphics.drawable.Drawable;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageButton;
import android.widget.ImageView;

import androidx.appcompat.app.AppCompatActivity;

public class Sub extends AppCompatActivity {
    private String type;
    private ImageView[] imageViews;
    private int clicked1 = 0;
    private int clicked2 = 0;

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

        ImageView imageView = findViewById(R.id.target);
        Intent intent = getIntent();
        if (intent != null) {
            type = intent.getStringExtra("type");
```

```java
            if (type != null) {
                switch (Type.valueOf(type)) {
                    case CIRCLE:
                        imageView.setImageResource(R.drawable.circle);
                        break;
                    case SQUARE:
                        imageView.setImageResource(R.drawable.square);
                        break;
                }
            }
        }

        imageViews = new ImageView[6];
        imageViews[0] = findViewById(R.id.square1);
        imageViews[1] = findViewById(R.id.square2);
        imageViews[2] = findViewById(R.id.circle1);
        imageViews[3] = findViewById(R.id.circle2);
        imageViews[4] = findViewById(R.id.triangle1);
        imageViews[5] = findViewById(R.id.triangle2);

        for (final ImageView target : imageViews) {
            target.setOnClickListener(new View.OnClickListener() {
                @SuppressLint("UseCompatLoadingForDrawables")
                @Override
                public void onClick(View v) {
                    ImageView clickedImageView = (ImageView) v;
                    Drawable checkDrawable =
getResources().getDrawable(R.drawable.ok_check);
                    clickedImageView.setForeground(checkDrawable);
                    if (clicked1 == 0) {
                        clicked1 = v.getId();
                    } else if (clicked2 == 0) {
                        clicked2 = v.getId();
                    }
                }
            });
        }

        ImageButton resultBtn = findViewById(R.id.resultBtn);
        resultBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent resultIntent = new Intent();
                resultIntent.putExtra("clicked1", clicked1 != 0 ?
getResources().getResourceEntryName(clicked1) : "");
                resultIntent.putExtra("clicked2", clicked2 != 0 ?
getResources().getResourceEntryName(clicked2) : "");
                setResult(RESULT_OK, resultIntent);
                finish();
            }
        });
    }
}
```

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

```xml
<LinearLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:padding="50dp"
        android:text="같은 모양 찾기 게임"
        android:textColor="@color/green"
        android:textSize="30dp"
        android:layout_weight="1"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:padding="50dp"
        android:text="모양을 선택하세요"
        android:textColor="@color/pink"
        android:textSize="20dp"
        android:layout_weight="1"
        android:textStyle="italic"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_weight="2">

        <LinearLayout
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:gravity="center"
            android:orientation="vertical">

            <ImageView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:src="@drawable/circle" />

            <RadioButton
                android:id="@+id/circle"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="circle"
                android:textColor="@color/blue"
                android:textSize="30dp"
                android:textStyle="bold"/>
```

```xml
        </LinearLayout>

        <LinearLayout
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:gravity="center"
            android:orientation="vertical">

            <ImageView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:src="@drawable/square" />

            <RadioButton
                android:id="@+id/square"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="square"
                android:textColor="@color/red"
                android:textSize="30dp"
                android:textStyle="bold"/>
        </LinearLayout>

    </LinearLayout>

    <LinearLayout
        android:id="@+id/selectedResult"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="horizontal"
        android:backgroundTint="@color/blue"/>
    <TextView
        android:id="@+id/resultText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="결과"
        android:textColor="@color/red"
        android:gravity="center" />
    <ImageButton
        android:id="@+id/startBtn"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:src="@drawable/button" />

</LinearLayout>
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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/main"
    android:layout_width="match_parent"
```

```
 7         android:layout_height="match_parent"
 8         android:orientation="vertical"
 9         tools:context=".Sub">
10
11      <TextView
12          android:layout_width="match_parent"
13          android:layout_height="0dp"
14          android:layout_weight="1"
15          android:gravity="right"
16          android:text="Matching Shape?"
17          android:textColor="@color/green"
18          android:textSize="30dp"
19          android:textStyle="bold|italic" />
20
21      <ImageView
22          android:id="@+id/target"
23          android:layout_width="match_parent"
24          android:layout_height="0dp"
25          android:layout_weight="2"
26          android:src="@drawable/ic_launcher_background" />
27
28      <GridLayout
29          android:layout_width="match_parent"
30          android:layout_height="0dp"
31          android:layout_weight="3"
32          android:columnCount="3"
33          android:rowCount="2">
34
35          <ImageView
36              android:id="@+id/triangle1"
37              android:layout_width="0dp"
38              android:layout_height="0dp"
39              android:layout_rowWeight="1"
40              android:layout_columnWeight="1"
41              android:scaleType="centerCrop"
42              android:src="@drawable/shape06" />
43
44
45          <ImageView
46              android:id="@+id/square1"
47              android:layout_width="0dp"
48              android:layout_height="0dp"
49              android:layout_rowWeight="1"
50              android:layout_columnWeight="1"
51              android:scaleType="centerCrop"
52              android:src="@drawable/shape03" />
53
54          <ImageView
55              android:id="@+id/circle1"
56              android:layout_width="0dp"
57              android:layout_height="0dp"
58              android:layout_rowWeight="1"
59              android:layout_columnWeight="1"
60              android:scaleType="centerCrop"
61              android:src="@drawable/shape01" />
62
```

```
        <ImageView
            android:id="@+id/square2"
            android:layout_width="0dp"
            android:layout_height="0dp"
            android:layout_rowWeight="1"
            android:layout_columnWeight="1"
            android:scaleType="centerCrop"
            android:src="@drawable/shape04" />

        <ImageView
            android:id="@+id/circle2"
            android:layout_width="0dp"
            android:layout_height="0dp"
            android:layout_rowWeight="1"
            android:layout_columnWeight="1"
            android:scaleType="centerCrop"
            android:src="@drawable/shape02" />

        <ImageView
            android:id="@+id/triangle2"
            android:layout_width="0dp"
            android:layout_height="0dp"
            android:layout_rowWeight="1"
            android:layout_columnWeight="1"
            android:scaleType="centerCrop"
            android:src="@drawable/shape05" />


    </GridLayout>

    <ImageButton
        android:id="@+id/resultBtn"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:src="@drawable/button2" />

</LinearLayout>
```