

First of all, decompress the APK file with :

7z x BasicAndroidRE1.apk

Then, we need 2 Linux tools :

1. **dex2jar**, to convert **classes.dex** into a **Jar** file :

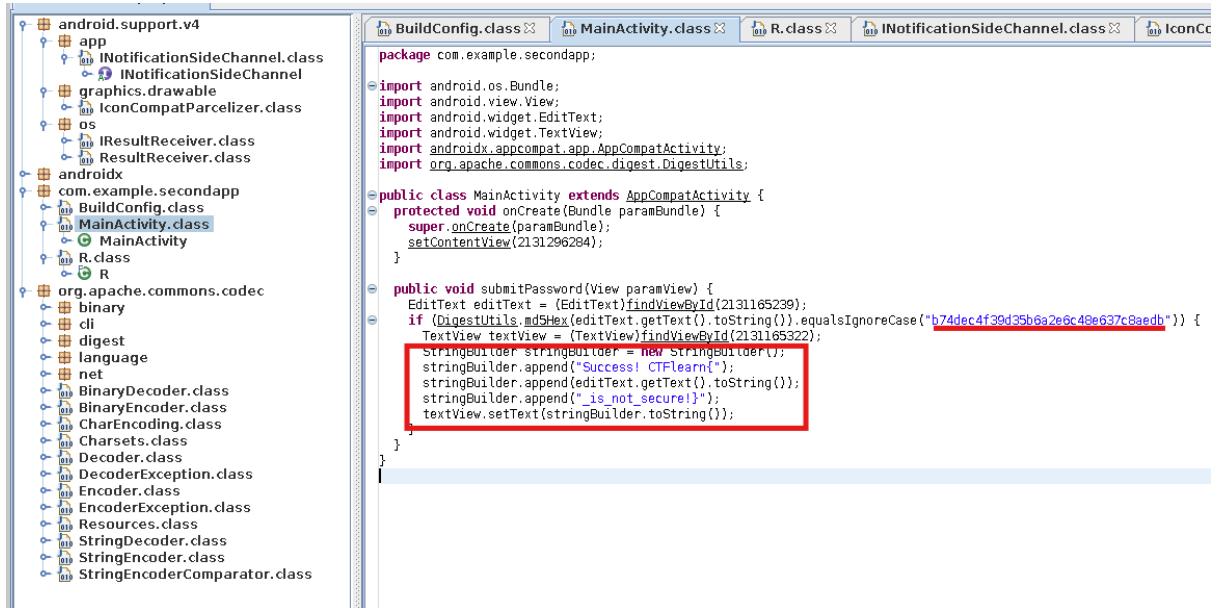
d2j-dex2jar classes.dex

2. **jd-gui**, a Jar GUI viewer :

jd-gui classes-dex2jar.jar

Here, in the **com.example.secondapp -> MainActivity.class** file we can see an MD5.

And we can observe that the flag format is **CTFlearn{MD5}_is_not_secure!** :



```
BuildConfig.class MainActivity.class R.class INotificationSideChannel.class IconC
package com.example.secondapp;

import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import org.apache.commons.codec.digest.DigestUtils;

public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle paramBundle) {
        super.onCreate(paramBundle);
        setContentView(2131296284);
    }

    public void submitPassword(View paramView) {
        EditText editText = (EditText)findViewById(2131165239);
        if (DigestUtils.md5Hex(editText.getText().toString()).equalsIgnoreCase("b74dec4f39d35b6a2e6c49e637c8aedb")) {
            TextView textView = (TextView)findViewById(2131165322);
            StringBuilder stringBuilder = new StringBuilder();
            stringBuilder.append("Success! CTFlearn{");
            stringBuilder.append(editText.getText().toString());
            stringBuilder.append("_is_not_secure!");
            textView.setText(stringBuilder.toString());
        }
    }
}
```

If we upload the MD5 on <https://www.dcode.fr/md5-hash>, we can see the string is

Spring2019

THE FLAG : CTFlearn{Spring2019_is_not_secure!}

~Z4que