

# 2017年网络空间安全技术大赛部分writeup

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作为一个bin小子，这次一个bin都没做出来,我很羞愧。

## 0x00 拵敗鮎瓖三叭

兽余攏佢专夠诺= 昕撤迟八夔缜诗準斫阼殼

```
public void checkPass(String paramString)
{
    String str = CheckUtil.checkPass(paramString);
    if ((paramString == null) || (paramString.equals("")) 1
    {
        Toast.makeText(getApplicationContext(), getString(2131034114), 1).show();
        return;
    }
    if (str.equals("a") 2
    {
        startActivity(new Intent(this, WindowActivity.class));
        return;
    }
    Toast.makeText(getApplicationContext(), getString(2131034115), 1).show();
}
```

叵佻劬制= 台霸2爻齡str筏五a齶叵佻二= 耒str昵男1爻齡checkPass迎囤= 五昵迟八checkPass刃儼ザ

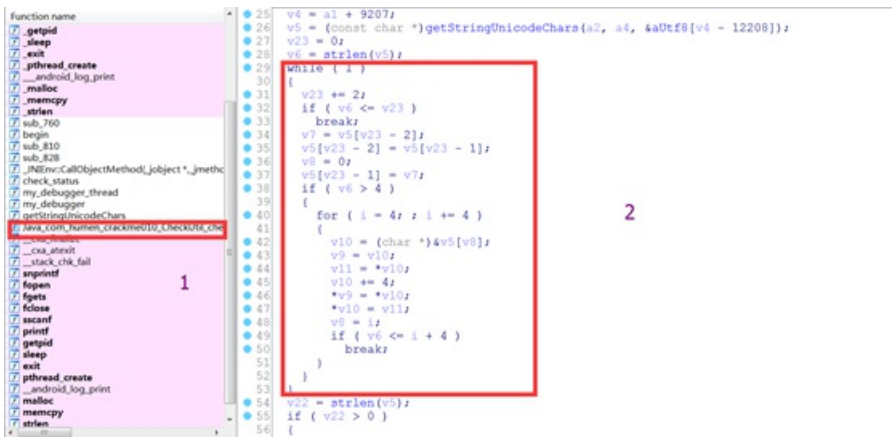
```
package com.humen.crackme010;

public class CheckUtil
{
    public static native String checkPass(String paramString);
}
```

仔仕斫劬= 迟昵諄脩二so庙銓 齡刃儼= 幼业餓仲矯遙so庙齡吓孝叱humen

```
static
{
    System.loadLibrary("humen");
}
```

五昵抄制so庙, 拜迟ida韮佢刂枏



抄制checkPass刃隼 = 旰擲F5, 造速刃柺 = 2弗齡仕斫斫へ兹错

迟殼仕斫斫斫仲徹八齡富斫便二砲嶠變杈齡馭捨 = 馭捨咆值制齡孝第九へS!@#01FD23154A34

```

jot:00002FA4 / check_status:100_32t
jot:00002FA8 my_debugger_thread_ptr dd offset my_debugger_thread
jot:00002FA8 / DATA XREF: my_debugg
jot:00002FAC t_ptr dd offset t / DATA XREF: Java_com_
jot:00002FAC _got ends / S!@#01FD23154A34"
jot:00002FAC
jot.plt:00002FB0 ; =====
jot.plt:00002FB0
jot.plt:00002FB0 ; Segment type: Pure data
jot.plt:00002FB0 ; Segment permissions: Read/Write
...

```

五呢餞抄二16弦紓 = 對flag馭捨刀杜二ザザザザ



### 0x01 取证密码

斐缜诗

```

}) .start();
button.setOnClickListener(new View.OnClickListener()
{
    public void onClick(View paramAnonymousView)
    {
        if (GetString.encrypt(editText.getText().toString().trim()))
        {
            Toast.makeText(MainActivity.this, "OK", 0).show();
            return;
        }
        Toast.makeText(MainActivity.this, "Error", 0).show();
    }
});
}
}

```

## 返八encrypt刃隳

```

public class GetString
{
    static
    {
        System.loadLibrary("XTU");
    }

    public static native boolean encrypt(String paramString);

    public static native String getString();

    public static native String sendData(String paramString);
}

```

## 抄制XTU. so拜返ida隳恒刃柝ザ

```

20 v3 = a1;
21 v4 = a2;
22 v5 = _JNIEnv::NewStringUTF(a1, "yInS567!bcNOUV8vwCDefXYZadoPQRGx13ghTpqrsHklm2EFtuJKLzMiJAB094W");
23 v6 = _JNIEnv::NewStringUTF(v5, "Welc0meT0XTUCTF");
24 v7 = (const char *)_JNIEnv::GetStringUTFChars(v5, v6, 0);
25 v8 = (const char *)_JNIEnv::GetStringUTFChars(v5, v6, 0);
26 v9 = (char *)_JNIEnv::GetStringUTFChars(v5, v6, 0);
27 v10 = 3;
28 v11 = 3;
29 v12 = (char *)_operator new[4*(v10 + 1)];
30 v13 = (char *)_operator new[4*(v11 + 1)];
31 v14 = 3;
32 v15 = (char *)_operator new[4*(v14 + 1)];
33 3;
34 3;
35 3;
36 3;
37 for ( i = 0; i < 3; i++)
38     v12[i] = v13[i] ^ 0x15;
39 v14 = 0;
40 while ( (unsigned __int3)v10[v14] == (unsigned __int3)v12[v14] )
41 {
42     if ( ++v14 == 15 )
43         return 0;
44 }
45 return 0;

```

## 迟般仕砣程篥辘 = 艇杢妈丑

```

1 dest = [0x39,0x20,7,0xA,0x20,0x29,0x13,2,0x3A,0xC,0x11,0x31,0x3B,0xB,7]
2 str = 'Welc0meT0XTUCTF'
3 str1 = 'yInS567!bcNOUV8vwCDefXYZadoPQRGx13ghTpqrsHklm2EFtuJKLzMiJAB094W'
4 a = len(str)
5 b = ''
6 for i in range(a):
7     b += str1[dest[i]]
8 print b

```

## 达街 = 值制flag.

## 0x02 人民的名义-抓捕赵德汉1

## 昵丰jar竟任 = 昕掀吏缜诗ザ

```

public static void main(String[] args)
throws ClassNotFoundException, InstantiationException, IllegalAccessException, IOException, NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException
{
    CheckerInterface checkerObject = loadCheckerObject();

    BufferedReader stdin = new BufferedReader(new InputStreamReader(System.in));
    while (true)
    {
        System.out.println("Enter password:");
        String line = stdin.readLine();

        if (checkerObject.checkPasswd(line) {
            System.out.println("Well done. that is the correct password");
            System.exit(0);
        } else {
            System.out.println("Incorrect password");
        }
    }
}

```

## 刃柝遁辘 = 昕掀返八checkPassword刃柝

```

public class CheckPass
implements CheckInterface
{
public boolean checkPassword(String input)
{
    MessageDigest md5Obj = null;
    try {
        md5Obj = MessageDigest.getInstance("MD5");
    } catch (NoSuchAlgorithmException e) {
        System.out.println("Hash Algorithm not supported");
        System.exit(-1);
    }

    byte[] hashBytes = new byte[40];
    md5Obj.update(input.getBytes());
    hashBytes = md5Obj.digest();
    return byteArrayToHexString(hashBytes).equals("fa37330c647d0e53a66cf8df953c2d539");
}
}

```

程昔眈台霸MD5觥富馐街

0x03人民的名义-抓捕赵德汉2

昵丰 jar 竟任 = 昕掇夔缜诗

```

public static void main(String[] args) {
    JFrame frame = new JFrame("Key check");
    JButton button = new JButton("Click to activate");

    button.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            String str = JOptionPane.showInputDialog("Enter the product key: ");
            if ("".equals(str)) {
                JOptionPane.showMessageDialog(frame, "Well done that was the correct key.",
                    "Key check", JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(frame, "Sorry that was the incorrect key \nRemember it is a crime to use software without pay!",
                    "Key check", JOptionPane.ERROR_MESSAGE);
            }
        }
    });
}

```

妃狗涉破 = 程旂 = 佃连昵续绳刳枏 = 迟八迟丰专矫吓聆刃撇

```

public class UnitTests
{
    static String _1 = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
    static String _2 = "abcdefghijklmnopqrstuvwxyz";

    public static boolean check(String str)
    {
        if (str.length() != 52) return false;
        char[] arr = str.toCharArray();
        for (int i = 0; i < 52; i++) {
            if (arr[i] < 'A' || arr[i] > 'Z' || arr[i] < 'a' || arr[i] > 'z') {
                return false;
            }
        }
        return true;
    }
}

```

昫制个丰兹错刃撇 = 兔迟八笄丌丰刃撇刳枏 = 丌践逃踰

```

public static native long currentTimeMillis();
public static native long nanoTime();
public static String arraycopy(Object src, int srcPos, Object dest, int destPos, int length)
{
    return Arrays.copyOf(src, length);
}

```

```

class Start
{
    public static String main(String[] args)
    {
        String x = "";
        for (int i = 0; i < 26; i++) {
            x = x + (char)((i >> 1) + 15);
        }
        return x;
    }
}

```

夔琿迟殼仕攸

```

public static void main(String[] args) {
    // TODO code application logic here
    String x = "";
    for (int $ : "vE%xE-E-EvixE²E²AiX".toCharArray())
        x = x + (char)(($ >> 1) + 15);
    System.out.println(x);
}

```

值制孝第丸JsnatterrtJuaththovacke

烧咆迟八奔姑龄笄互丰刃隼

```

83 public static int 0000000000(int \, String @)
    {
        return 0000000000(\) % @.length();
    }
    1

87 private static int 0000000000(int \) {
    if (\ > 2) return 0000000000(\ - 1) + 0000000000(\ - 2); return 1;
    }
    2

```

仕砣遁辘程笱辘 = 丑曆呢艇杪

```

1 # -*- coding: utf-8 -*-
2 def f1(a,b):
3     return f2(a) % len(b)
4 def f2(b):
5     if b > 2:
6         return f2(b - 1) + f2(b - 2)
7     else:
8         return 1
9 x = 'JsnatterrtJuaththovacke'
10 b = ''
11 z = 0
12 for i in range(0,4):
13     for j in range(0,4):
14         b += x[f1(z + j,x)]
15     z += 5
16 print b

```

达街值制flag. 泮愕桂引flag {xxxx-xxxx-xxxx-xxxx}

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