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java逆向解密

下载文件是一个class文件, 上网查了以后下载jd-gui打开

```
public static void main(String[] args)
{
    Scanner s = new Scanner(System.in);
    System.out.println("Please input the flag : ");
    String str = s.next();
    System.out.println("Your input is : ");
    System.out.println(str);
    char[] stringArr = str.toCharArray();
    Encrypt(stringArr);
}

public static void Encrypt(char[] arr)
{
    ArrayList<Integer> Resultlist = new ArrayList();
    for (int i = 0; i < arr.length; i++)
    {
        int result = arr[i] + '@' ^ 0x20;
        Resultlist.add(Integer.valueOf(result));
    }
    int[] KEY = { 180, 136, 137, 147, 191, 137, 147, 191, 148, 136, 133 };
    ArrayList<Integer> KEYList = new ArrayList();
    for (int j = 0; j < KEY.length; j++) {
        KEYList.add(Integer.valueOf(KEY[j]));
    }
    System.out.println("Result:");
    if (Resultlist.equals(KEYList)) {
        System.out.println("Congratulations! ");
    }
}
```

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这是Python的代码

我们输入一个字符串 然后经过一个for循环进行异或 然后将得到的新字符串与KEY进行比较, 看看是否相等

结果就得到了flag: flag{This_is_the_flag_!}

luck—guy

查看信息后用ida64位打开



找到main函数

```
-1 Structures Enums Imports
; Attributes: bp-based frame
; int __cdecl main(int argc, const char **argv, const char **envp)
public main
main proc near

var_20= qword ptr -20h
var_14= dword ptr -14h
var_C= dword ptr -0Ch
var_8= qword ptr -8

; __unwind {
push rbp
mov rbp, rsp
sub rsp, 20h
mov [rbp+var_14], edi
mov [rbp+var_20], rsi
mov rax, fs:28h
mov [rbp+var_8], rax
xor eax, eax
mov eax, 0
call welcome
mov edi, offset asc_400BFE ; "_____ "
call _puts
mov edi, offset aTryToPatchMeAn ; "try to patch me and find flag"
call _puts
```

反汇编并点到那个flag里

```

-1  Structures  Enums  Imports
; Attributes: bp-based frame

; int __cdecl main(int argc, const char **argv, const char **envp)
public main
main proc near

var_20= qword ptr -20h
var_14= dword ptr -14h
var_C= dword ptr -0Ch
var_8= qword ptr -8

; __unwind {
push    rbp
mov     rbp, rsp
sub     rsp, 20h
mov     [rbp+var_14], edi
mov     [rbp+var_20], rsi
mov     rax, fs:28h
mov     [rbp+var_8], rax
xor     eax, eax
mov     eax, 0
call    welcome
mov     edi, offset asc_400BFE ; "_____ "
call    _puts
mov     edi, offset aTryToPatchMeAn ; "try to patch me and find flag"
call    _puts

```

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ction Data Unexplored External symbol Lumina fur

IDA View-A Pseudocode-A Strings window

```

1 int __cdecl main(int argc, const char **argv, cc
2 {
3     unsigned int v4; // [rsp+14h] [rbp-Ch] BYREF
4     unsigned __int64 v5; // [rsp+18h] [rbp-8h]
5
6     v5 = __readfsqword(0x28u);
7     welcome(argc, argv, envp);
8     puts("_____");
9     puts("try to patch me and find flag"); |
10    v4 = 0;
11    puts("please input a lucky number");
12    __isoc99_scanf("%d", &v4);
13    patch_me(v4);
14    puts("OK,see you again");
15    return 0;
16 }

```

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```
unsigned __int64 get_flag()
{
    unsigned int v0; // eax
    int i; // [rsp+4h] [rbp-3Ch]
    int j; // [rsp+8h] [rbp-38h]
    __int64 s; // [rsp+10h] [rbp-30h] BYREF
    char v5; // [rsp+18h] [rbp-28h]
    unsigned __int64 v6; // [rsp+38h] [rbp-8h]

    v6 = __readfsqword(0x28u);
    v0 = time(0LL);
    srand(v0);
    for ( i = 0; i <= 4; ++i )
    {
        switch ( rand() % 200 )
        {
            case 1:
                puts("OK, it's flag:");
                memset(&s, 0, 0x28uLL);
                strcat((char *)&s, f1);
                strcat((char *)&s, &f2);
                printf("%s", (const char *)&s);
                break;
            case 2:
                printf("Solar not like you");
                break;
            case 3:
                printf("Solar want a girlfriend");
                break;
            case 4:
                s = 0x7F666F6067756369LL;
                v5 = 0;
                printf("%s", (const char *)&s);
                break;
            case 5:
                printf("Solar not like you");
                break;
            case 3:
                printf("Solar want a girlfriend");
                break;
            case 4:
                s = 0x7F666F6067756369LL;
                v5 = 0;
                strcat(&f2, (const char *)&s);
                break;
            case 5:
                for ( j = 0; j <= 7; ++j )
                {
                    if ( j % 2 == 1 )
                        *(&f2 + j) -= 2;
                    else
                        --*(&f2 + j);
                }
                break;
            default:
                puts("emmm,you can't find flag 23333");
                break;
        }
    }
    return __readfsqword(0x28u) ^ v6;
}
```

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```
printf("%s", (const char *)&s);
break;
case 2:
    printf("Solar not like you");
    break;
case 3:
    printf("Solar want a girlfriend");
    break;
case 4:
    s = 0x7F666F6067756369LL;
    v5 = 0;
    strcat(&f2, (const char *)&s);
    break;
case 5:
    for ( j = 0; j <= 7; ++j )
    {
        if ( j % 2 == 1 )
            *(&f2 + j) -= 2;
        else
            --*(&f2 + j);
    }
    break;
default:
    puts("emmm,you can't find flag 23333");
    break;
}
}
return __readfsqword(0x28u) ^ v6;
}
```

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先case4赋值，然后case5，进行加密操作，最后case1，进行剪切

用脚本得到flag