




# pwnable.kr collision - 3 pt [writeup]

原创

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订阅专栏

```
Daddy told me about cool MD5 hash collision today.
```

```
I wanna do something like that too!
```

```
ssh col@pwnable.kr -p2222 (pw:guest)
```

常规操作, 先到服务器上看一下这是个什么东西:

```
→ ~ ssh col@pwnable.kr -p 2222
col@pwnable.kr's password:

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- Site admin : daehee87.kr@gmail.com
- IRC : irc.netgarage.org:6667 / #pwnable.kr
- Simply type "irssi" command to join IRC now
- files under /tmp can be erased anytime. make your directory under /tmp
- to use peda, issue `source /usr/share/peda/peda.py` in gdb terminal
Last login: Wed Jul 24 01:06:46 2019 from 116.233.190.55
col@prowl:~$ ls
col col.c flag
col@prowl:~$ cat col.c
#include <stdio.h>
#include <string.h>
unsigned long hashcode = 0x21DD09EC;
unsigned long check_password(const char* p){
    int* ip = (int*)p;
    int i;
    int res=0;
    for(i=0; i<5; i++){
        res += ip[i];
    }
    return res;
}

int main(int argc, char* argv[]){
    if(argc<2){
        printf("usage : %s [passcode]\n", argv[0]);
        return 0;
    }
    if(strlen(argv[1]) != 20){
        printf("passcode length should be 20 bytes\n");
        return 0;
    }

    if(hashcode == check_password( argv[1] )){
        system("/bin/cat flag");
        return 0;
    }
    else
        printf("wrong passcode.\n");
        return 0;
}
col@prowl:~$
```

分析代码，首先映入眼帘的是**hashcode = 0x21DD09EC**，他是个16进制的数字  
往下看，发现这里的函数很有意思，只循环了5次。



大端和小端啥区别可以自己查一下，反正就是一个正着看，一个反着看。iOS是小端。

最后的结果：

```
→ pwn /usr/local/bin/python /Users/youssef/Desktop/pwn/collision.py
[+] Connecting to pwnable.kr on port 2222: Done
[*] fd@pwnable.kr:
    Distro   Ubuntu 16.04
    OS:      linux
    Arch:    amd64
    Version: 4.4.179
    ASLR:    Enabled
[+] Starting remote process './col' on pwnable.kr: pid 59553
daddy! I just managed to create a hash collision :)
```