

Git Leakage

根据题目用 githack

```
han@han-virtual-machine:~/桌面/GitHack$ python3 GitHack.py http://week-2.hgame.lwsec.cn:31895/.git/
```

下载后在文件内发现目标文件 Th1s_1s-flag

Math

```
for ( i = 0; i <= 4; ++i )
{
    for ( j = 0; j <= 4; ++j )
    {
        for ( k = 0; k <= 4; ++k )
            v11[5 * i + j] += *((char *)&savedregs + 5 * i + k - 368) * v10[5 * k + j];
    }
}
for ( m = 0; m <= 24; ++m )
{
    if ( v11[m] != v12[m] )
    {
        printf("no no no, your match is terrible...");
        exit(0);
    }
}
printf("yes!");
```

反编译以后，发现是原式是矩阵乘法，反一下是矩阵除法，计算

```
69619 37190 70162 53110 68678
63339 30687 66494 50936 60810
48784 30188 60104 44599 52265
43048 23660 43850 33646 44270
```

River Flows In You

矩阵B

```
126 225 62 40 216
253 20 124 232 122
62 23 100 161 36
118 21 184 26 142
59 31 186 82 79
```

计算

清除

```
结果: A/B=A×B'=
104.03279 102.50412 96.82713 109.23225 101.27732
123.03683 120.44251 47.8171 117.26742 114.31785
95.03039 108.5199 63.84329 116.23448 104.27428
95.0299 48.59291 114.8248 95.19527 103.23685
79.02343 47.64476 99.87814 125.16614 0.19714
```

转化一下得

hgame{y0ur_m@th_1s_g00d}

stream

00000000	E3 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	00 03 00 00 00 40 00 00	00 73 4E 00 00 00 64 00	ã - - - - - @ sN d
00000020	64 01 6C 00 5A 00 64 02	64 03 84 00 5A 01 64 04	64 05 84 00 5A 02 65 03	64 06 83 01 5A 04 64 07	d l z d d „ z d d „ z e d f z d
00000040	5A 05 65 02 65 04 65 05	83 02 5A 06 65 06 64 08	6B 02 72 21 65 07 64 09	83 01 01 00 64 01 53 00	z e e e f z e d k r l e d f d s
00000060	65 07 64 0A 83 01 01 00	64 01 53 00 29 0B E9 00	00 00 00 4E 63 01 00 00	00 00 00 00 00 00 00 00	e d f d s) é Nc
00000080	00 07 00 00 00 07 00 00	00 43 00 00 00 73 D2 00	00 00 74 00 74 01 64 01	83 01 83 01 7D 01 64 02	c s0 t t d f f f } d
000000A0	7D 02 74 01 64 01 83 01	44 00 5D 22 7D 03 7C 02	7C 01 7C 03 19 00 17 00	74 02 7C 00 7C 03 74 03	} t d f D] ") t t
000000C0	7C 00 83 01 16 00 19 00	83 01 17 00 64 01 16 00	7D 02 7C 01 7C 03 19 00	7D 04 7C 01 7C 02 19 00	f f d } }
000000E0	7C 01 7C 03 3C 00 7C 04	7C 01 7C 02 3C 00 71 0C	64 02 04 00 7D 03 7D 02	67 00 7D 05 74 01 64 03	< < q d } } g } t d
00000100	83 01 44 00 5D 2D 7D 06	7C 03 64 04 17 00 64 01	16 00 7D 03 7C 02 7C 01	7C 03 19 00 17 00 64 01	f D } - } d d } d
00000120	16 00 7D 02 7C 01 7C 03	19 00 7D 04 7C 01 7C 02	19 00 7C 01 7C 03 3C 00	7C 04 7C 01 7C 02 3C 00	} } < <
00000140	7C 05 A0 04 7C 01 7C 01	7C 03 19 00 7C 01 7C 02	19 00 17 00 64 01 16 00	19 00 A1 01 01 00 71 39	d i q9
00000160	7C 05 53 00 29 05 4E E9	00 01 00 00 72 01 00 00	00 E9 32 00 00 00 E9 01	00 00 00 29 05 DA 04 6C	s) Né r é2 é) 0 l
00000180	69 73 74 DA 05 72 61 6E	67 65 DA 03 6F 72 64 DA	03 6C 65 6E DA 06 61 70	70 65 6E 64 29 07 DA 03	ist0 range0 ord0 len0 append) 0
000001A0	6B 65 79 DA 01 73 DA 01	6A DA 01 69 DA 03 74 6D	70 DA 04 64 61 74 61 DA	01 5F A9 00 72 11 00 00	key0 s0 j0 i0 tmp0 data0 _@ r
000001C0	00 FA 09 73 74 72 65 61	6D 2E 70 79 DA 03 67 65	6E 04 00 00 00 73 22 00	00 00 0C 01 04 01 0C 01	ú stream.py0 gen s" r
000001E0	24 01 08 01 0C 01 0A 01	08 01 04 01 0C 01 0C 01	10 01 08 01 0C 01 08 01	20 01 04 01 72 13 00 00	\$ c c sF d
00000200	00 63 02 00 00 00 00 00	00 00 00 00 00 00 05 00	00 00 05 00 00 00 43 00	00 00 73 46 00 00 00 64	c } t t f f D] \ }) t t
00000220	01 7D 02 74 00 7C 00 74	01 7C 01 83 01 83 02 44	00 5D 0E 5C 02 7D 03 7D	04 7C 02 74 02 74 03 7C	f A f 7 } q t i i i }
00000240	03 83 01 7C 04 41 00 83	01 37 00 7D 02 71 09 74	04 A0 05 7C 02 A0 06 A1	00 A1 01 A0 07 A1 00 7D	s) N0) 0 zipr 0 chr r
00000260	02 7C 02 53 00 29 02 4E	DA 00 29 08 DA 03 7A 69	70 72 13 00 00 00 DA 03	63 68 72 72 07 00 00 00	0 base640 b64encode0 decode0
00000280	DA 06 62 61 73 65 36 34	DA 09 62 36 34 65 6E 63	6F 64 65 DA 06 65 6E 63	6F 64 65 DA 06 64 65 63	ode) 0 textr 0 result0 c0 kr
000002A0	6F 64 65 29 05 DA 04 74	65 78 74 72 0A 00 00 00	DA 06 72 65 73 75 6C 74	DA 01 63 DA 01 6B 72 11	r r 0 encrypt s
000002C0	00 00 00 72 11 00 00 00	72 12 00 00 00 DA 07 65	6E 63 72 79 70 74 18 00	00 00 73 0A 00 00 00 04	r z Flag: 0 As we do
000002E0	01 16 01 16 01 12 01 04	01 72 1F 00 00 00 7A 06	46 6C 61 67 3A 20 DA 14	41 73 5F 77 65 5F 64 6F	_as_you_know0Xwr3C1Vcsw7nCrm0CHc
00000300	5F 61 73 5F 79 6F 75 5F	6B 6E 6F 77 DA 58 77 72	33 43 6C 56 63 53 77 37	6E 43 6D 4D 4F 63 48 63	Rgac0tMkVdJxz6asRww4nChMK8IsK7RM
00000320	4B 67 61 63 4F 74 4D 6B	76 44 6A 78 5A 36 61 73	4B 57 77 34 6E 43 68 4D	4B 38 49 73 4B 37 4B 4D	0Oas0rdgbDlx3DqcrQw0hw701Ly57w6
00000340	4F 4F 61 73 4F 72 64 67	62 44 6C 78 33 44 71 63	4B 71 77 72 30 68 77 37	30 31 4C 78 35 37 77 36	3Ctc0Lz yes!z try again...) r
00000360	33 43 74 63 4F 6C 7A 04	79 65 73 21 7A 0C 74 72	79 20 61 67 61 69 6E 2E	2E 2E 29 08 72 17 00 00	r r 0 inputr r 0 en
00000380	00 72 13 00 00 00 72 1F	00 00 00 DA 05 69 6E 70	75 74 72 1B 00 00 00 72	0A 00 00 00 DA 03 65 6E	c0 printr r r r 0 <m
000003A0	63 DA 05 70 72 69 6E 74	72 11 00 00 00 72 11 00	00 00 72 11 00 00 00 72	12 00 00 00 DA 08 3C 6D	odule> s
000003C0	6F 64 75 6C 65 3E 01 00	00 00 73 12 00 00 00 08	00 08 03 08 14 08 09 04	01 0A 01 08 02 0C 01 0C	
000003E0	02				

饭喂嘴里了还不知道...