

🗡️ hgame week2 wp

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Misc

🔗 1.Computer cleaner plus

小明发现他的另一台虚拟机也遭遇了同样的问题，他按照你的步骤清理干净了自己的电脑，但是一段时间后发现自己的电脑还在遭受黑客的控制，请你再帮他排查一下造成这一情况的原因

flag为：hgame{可执行恶意文件名称}（不带后缀）

```
[root@localhost ~]# ps aux --sort=-%cpu
-bash: /bin/ps: Permission denied
[root@localhost ~]# sudo ps aux --sort=-%cpu
sudo: ps: command not found
[root@localhost ~]# file /bin/ps
/bin/ps: ASCII text
[root@localhost ~]# cat /bin/ps
/B4ck_D0_oR.elf & /hide_command/ps |grep -v "shell" |grep -v "B4ck_D0_oR" |grep "bash"
```

hgame{B4ck_D0_oR}

🔗 2.Invest in hints

无舍即无得。

Q&A:

- “这里的‘Hint #x’是哪个hint？（x替换为你喜欢的非负整数）” -- 由你自己来发现。
- “不会出现负收益的中间状态吗？” -- 无舍即无得。但我们保证解出赛题的收益是非负的。

求解本题无需使用暴力枚举。请选手确保在解题过程中不存在暴力枚举行为。

本题不设置血分。自动计算的血分将由工作人员扣除。

每个 Hint 按原串顺序包含以下位（个位代表原串的第一个字符）。

```
Hint 51: 000011001010011110100000001001000110100000000000000001101111000100
Hint 52: 01101000111011000000000101000100001001101100000000010010001110011000000
Hint 53: 1010010000000101100011000100110100001000110101110101011000100000000000
Hint 54: 000010100000100100001001100001000000100001001100111000001011100000111
Hint 55: 01110010100100100000000000000000011010110011000001111000101100000001000
Hint 56: 01110100001001000010010111101111011101001000100010011001000010011100000
Hint 57: 100001010100000000110000011001010010110100000110110010001000100011000
Hint 58: 00000111101000001001000001100100100000110000110000101000001101110100000
Hint 59: 010011010010010000000001001001110100000000000001011000100010000101010101
Hint 60: 10010010100110011011100010011001100100100001110010010101001000100001111
Hint 61: 01001000100011000001000000000011010001110001000000101100001000100010100
Hint 62: 00101000010000111000101110000010001000000001000111100010001101001001101
Hint 63: 0100001011101000000001010000101000101100010010001000000000000001000000
Hint 64: 0111011011001100000001000001100000001000000000000111000000010000010001
```

```
Hint 65: 01100000000110001100000001000100000000011001100000110010001011010000
Hint 66: 01110011001000101001100001011000011010000001100010100000011010000001000
Hint 67: 00111011000011000000100100101000100100101000010001100111001000100001000
Hint 68: 01000110010101011100110101110010001111100011010000000101010100000010010
Hint 69: 11111010111000110100010000000010001101111010011010001100000011000001001
Hint 70: 00000010110101100100100011001011011001100000100010011111000011000001101
Hint 71: 0000110000111010100001011100110001110010001001110000101000000001000010
Hint 72: 0110000000001100100101110000010100011011100010100010101111000001010100
Hint 73: 00001000001010010000001101010110110000110111011011100101011110010110000
Hint 74: 0101001010000000111011110001000010110100001000111001101010100000010000
Hint 75: 110100000110000101000010100001110110101000011110101001001000001111101110
```

随手买了hint 5

```
011100101001001000000000000000000011010110011000001111000101100000001000
```

```
mMk3ACi7SCWyAq3C5wda42
```

就 每个 Hint 按原串顺序包含以下位（个位代表原串的第一个字符）。这句话我看了好久

发现hint字符数量等于1的数量，猜测是一一对应的

最后根据hgame的第四位是m，把这个01倒置的第四位是1，所以理论上就很简单了。

然后算出来hint5在的情况下再买hint6、7、10、19、23就行了

草稿纸如图

```
binary_strings = [
    " m      Mk 3   ACi7      SC Wy A q3          C 5 w d a42 ", # Hint 5 22个1
    "0001000000011010001111000001100110101100000000000000000100100101001110", # Hint 5 22个1
    " {Au Y   o AC L  Q   a 2 zq3 i691 hNlC x r   A L   m a42 ", # Hint 6 30个1
    "00000111001000010011001000100010010111011110111101001000010010000101110", # Hint 6 30个1
    " me g k 9 Ci Lr   K Wy A q i 9 hN   8r       E L m   }", # Hint 7 24个1
    "00011000100010001001101100000101101010010100110000011000000001010100001", # Hint 7 24个1
    "hgam g k o 9 C L gQS y z ti 1D l u8r 2m D5 w d a }", # Hint 10 31个1
    "1111000010001001010100110000100100110011001000111011001100101001001", # Hint 10 31个1
    "h m   5Y      9A L 0g C aWy2 zq 6           x R mC LEw d Ha42}", # Hint 19 30个1
    "10010000011000000110001011001011110110001000000001000101100011101011111" # Hint 19 30个1
    " e{ u YMkf o 9 i7L 0g SCK Wy 3t 69 D N Cb   m D L   H ", # Hint 23 31个1
    "0000110101111010100111011011101100001101101010110000001001010000010000", # Hint 23 31个1
    hgame{Aug5YMkf3o99ACi7Lr0gQSCKaWy2Azq3ti691DhNlCbXu8rR2mCAD5LEwLdmHa42}
]
```

```
hgame{Aug5YMkf3o99ACi7Lr0gQSCKaWy2Azq3ti691DhNlCbXu8rR2mCAD5LEwLdmHa42}
```