

Vietnam

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WriteUp来源

<https://dunsp4rce.github.io/csictf-2020/reversing/2020/07/22/Vietnam.html>

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题目描述

The Viet Cong in transmitting a secret message. They built a password checker so that only a selected few can view the secret message. We've recovered the binary, we need you to find out what they're trying to say.

题目考点

解题思路

On decompiling using Ghidra:

```
1  undefined8 main(void)
2  {
3      undefined *puVar1;
4      int iVar2;
5      int local_18;
6      int local_14;
7      char *local_10;
8
9      local_10 = (char *)malloc(0x400);
10     fgets(local_10,0x400,stdin);
11     setbuf(stdout,(char *)0x0);
12     while (puVar1 = sa, *local_10 != '\0') {
13         switch(*local_10) {
14             case '!':
15                 tmp = sa;
16                 sa = sb;
17                 sb = sc;
18                 sc = puVar1;
19                 break;
20             case '$':
21                 sa = sa + 1;
22                 *sa = 1;
23                 break;
24             case '+':
25                 sa[-1] = *sa + sa[-1];
26                 sa = sa + -1;
27                 break;
28             case ',':
29                 iVar2 = getchar();
30                 *sa = (char)iVar2;
31                 break;
32             case '-':
33                 sa[-1] = sa[-1] - *sa;
34                 sa = sa + -1;
35                 break;
36             case '.':
37                 puVar1 = str + 1;
38                 *str = *sa;
39                 str = puVar1;
40                 break;
41             case '[':
42                 if (*sa == '\0') {
43                     local_14 = 1;
44                     while (local_14 != 0) {
45                         local_10 = local_10 + 1;
```

```

46         if (*local_10 == '[') {
47             local_14 = local_14 + 1;
48         }
49         else {
50             if (*local_10 == ']') {
51                 local_14 = local_14 + -1;
52             }
53         }
54     }
55 }
56 break;
57 case ']':
58     if (*sa != '\0') {
59         local_18 = 1;
60         while (local_18 != 0) {
61             local_10 = local_10 + -1;
62             if (*local_10 == '[') {
63                 local_18 = local_18 + -1;
64             }
65             else {
66                 if (*local_10 == ']') {
67                     local_18 = local_18 + 1;
68                 }
69             }
70         }
71     }
72 }
73 local_10 = local_10 + 1;
74 }
75 str = STR;
76 iVar2 = strcmp(STR, "HELLO\n");
77 if (iVar2 == 0) {
78     puts(str);
79     system("cat flag.txt");
80 }
81 else {
82     puts("Failed.");
83 }
84 return 0;
85 }

```

Although there are a lot of cases, , and . looks interesting. , takes a single character input (ivar2) and . appends iVar2 to the string STR. After all this, if STR is "HELLO", the flag will be printed. So the flag can be obtained using the following input:

```

1 ,,,,,,,,,,
2 HELLO

```

Flag

```
1 csictf{100k_4t_th3_t0w3rs_of_h4n01}
```

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