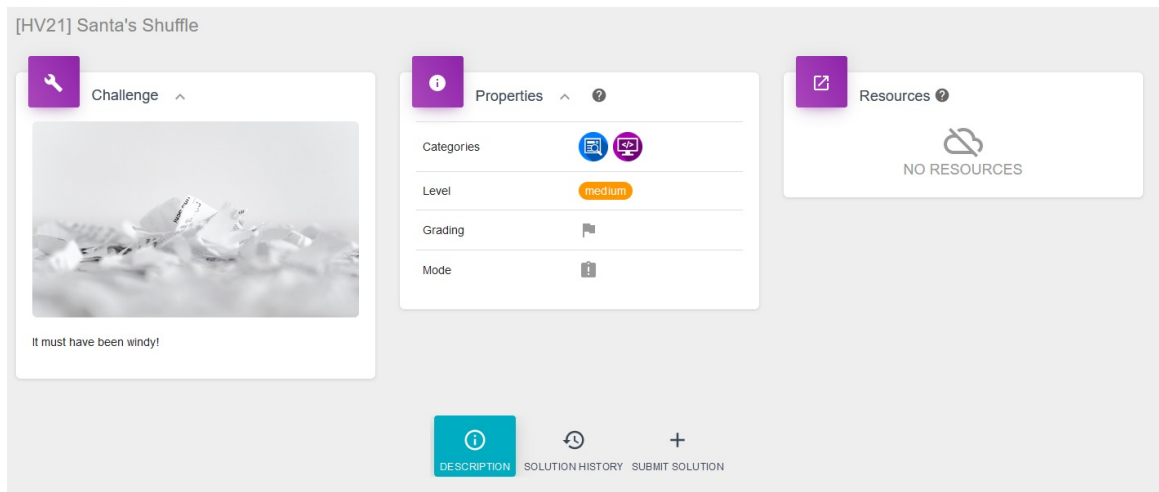


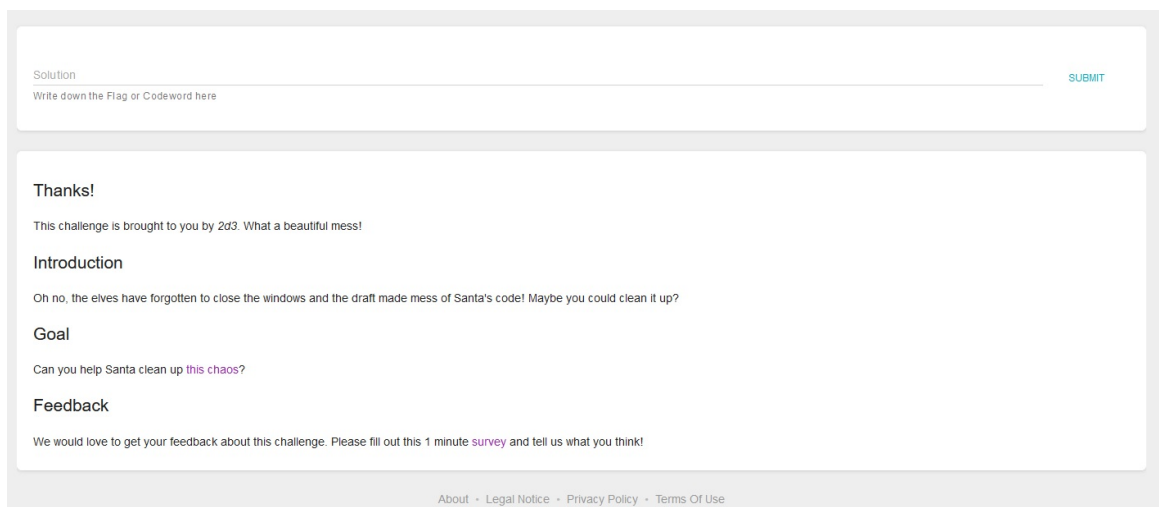
HACKvent 2021

Day 12

1. Open a **Web browser**
2. Navigate to <https://competition.hacking-lab.com/events/13/challenges/227>



3. Scroll **Down** the window



4. Right click on the **this chaos** link
5. Select **Save Link As...** from the drop-down list, to download the **434eb425-6597-4fd0-bbd8-6f6e427a5f72.txt** file
6. Start **Notepad**

7. Open the `434eb425-6597-4fd0-bbd8-6f6e427a5f72.txt` file

[illegible]

C code

8. Close Notepad

9. Type `copy 434eb425-6597-4fd0-bbd8-6f6e427a5f72.txt code.c`

10. Open a Developer Command Prompt for VS 2019

11. Type `cl code.c` to compile the C code

```
Microsoft (R) C/C++ Optimizing Compiler Version 19.29.30137 for x86
Copyright (C) Microsoft Corporation. All rights reserved.

code.c

Microsoft (R) Incremental Linker Version 14.29.30137.0
Copyright (C) Microsoft Corporation. All rights reserved.

/out:code.exe
code.obj
```

12. Type `code.exe` to execute the compiled file

Enter key:

13. Type `abcd`

14. Type `cl /P code.c` to pre-process the C source file and write the pre-processed output to file, `code.i`

```
Microsoft (R) C/C++ Optimizing Compiler Version 19.29.30137 for x86
Copyright (C) Microsoft Corporation. All rights reserved.

code.c
```

15. Type `type code.i | grep -A 50 main > main.c`
16. Start Visual Studio Code
17. Open `main.c` file
18. Press `SHIFT + ALT + F` to format the code
19. Save the modified code
20. Close Visual Studio Code
21. Start Notepad
22. Open the `main.c` file

```
main.c - Notepad
File Edit Format View Help
"TC[c#7-W]";
int main()
{
    putchar(69);
    putchar(11 * 10);
    int K = (1 << 6) + 2, L = (4 << 4) + 6;
    putchar(58 * 2);
    putchar(101);
    putchar(114);
    ;
    putchar(1
        << 5);
    putchar(107);
    putchar(101);
    const char *c = b;
    putchar(11 * 11);
    putchar(58);
    putchar(2 << 4);
    chark = (char)getchar();
    int i, s = 1 << 15, p = 0;
    unsigned charm[1 << 15] = {0};
    if (k != K || getchar() != L)
#line 70 "code.c"

```

Line 6 `K = 66, L = 70`

line	Char	Char
22	B	F
27	4	t
30	h	e
33	W	i
36	N	\$
40	R	i
43	g	h
48	t	?

Key: `BF4theWiN$Right?`

23. Close Notepad

24. Type `code.exe`

Enter key

25. Type `BF4theWiN$Right?`

HV21{-HidDeN-bRaINF-Ck-dEcoDer-}

Flag: `HV21{-HidDeN-bRaINF-Ck-dEcoDer-}`