

```
[*] Question number 0x2:
Which of these 3 protections are enabled (Canary, NX, PIE)?
>> NX
Correct
```

```

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@                                     @                                     @
@  HINT: Pay attention to the 'void print_msg(char *user)' @                                     @
@          and the 'strcmp(arg1, arg2, n_bytes)'.' @                                     @
@                                     @                                     @
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[*] Question number 0x3:

What do you need to enter so the message 'Welcome admin!' is printed?

>> admin

```

The Code in question for this is:

```

#include <stdio.h>

void under_construction(){
    printf("This is under development\n");
}

void print_msg(char *user){
    char formatter[0x20];
    strncpy(formatter, user, 5);
    for (size_t i = 0; i < 5; i++) formatter[i] =
tolower(formatter[i]);

    printf(strcmp(formatter, "admin", 5) == 0 ? "\nWelcome
admin!\n\n" : "\nWelcome user!\n\n");
}

int main(int argc, char **argv){
    char name[0x20] = {0};
    unsigned long x, y;
    printf("Enter your name: ");
    scanf("%s", name);
    print_msg(name);
    return 0;
}

```



```
[*] Question number 0x8:
What is the address of 'under_construction()' in hex? (e.g. 0x401337)
Home signal.cf32
>> 0x4011d6

Correct

birdo@DESKTOP-0ENQDDA: /mnt/d/HackTBox/Lesson/challenge
(gdb) p under_construction
$1 = {<text variable, no debug info>} 0x4011d6 <under_construction>
(gdb)
```

Great job! It's high time

HTB{w4rm35t\_w4rmup\_3v3r}

- Then we get the flag : HTB{w4rm35t\_w4rmup\_3v3r}