HACKTHEBOX

Shattered Tablet

2nd 12 23 / Document No. D23.102.92

Prepared By: clubby789

Challenge Author: clubby789

Difficulty: Very Easy

Classification: Official

Synopsis

Shattered Tablet is a Very Easy reversing challenge. Players will identify a shuffled string comparison and retrieve the flag.

Skills Learned

- Basic decompiler usage

Solution

If we execute the binary, we see

```
Hmmmm... I think the tablet says:
```

before the binary waits for input. Opening it in a decompiler, we see this code

```
char buf[0x40];
buf[0] = 0;
buf[8] = 0;
buf[0x10] = 0;
buf[0x18] = 0;
buf[0x20] = 0;
buf[0x28] = 0;
buf[0x30] = 0;
buf[0x38] = 0;
printf("Hmmmm... I think the tablet says: ");
```

```
    fgets(&buf, 0x40, stdin);
    if (buf[0x1f] != 0x70) {
    out:
        puts("No... not that");
    } else {
        if (buf[1] != 0x54) {
            goto out;
        }
        if (buf[7] != 0x6b) {
            goto out;
        }
        if (buf[0x24] != 0x64) {
            goto out;
        }
        [ .. SNIP .. ]
    }
```

We can see that many characters from `buf` are compared against constant character values. If we extract and order the values according to the `buf` index, then convert the values to ASCII, we receive the flag, and the program prints:

`Yes! That's right!`