

Esrever

发表于 2021-01-09 分类于 [Challenge](#) , [2020](#) , [CSICTF](#) , [Reverse](#)
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WriteUp来源

<https://dunsp4rce.github.io/csictf-2020/reversing/2020/07/21/Esrever.html>

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题目描述

I encrypted my flag so that nobody can see it, but now I realize I don't know how to decrypt it. Can you help me?

题目考点

解题思路

esrever.py contains 4 functions `enc1`, `enc2`, `enc3` and `enc4`. The first step would be to determine how to reverse each of these functions.

- `enc4` can be reversed by using the same mapping array but assigning in reverse.
 - `enc3`, similar to `enc4` can be reversed using the same mapping array and assigning in reverse.
 - `enc2` is an xor function and hence is its own reverse.
 - `enc1` is a caesar shift of a random value and hence needs to be iterated for the range of the random value.

The `encryptedText` and `encryptedKey` being encrypted with `encl` a hundred times does not matter as the caesar shift can be tested on all values of 0 to 26.

The flag is obtained on reversing each function from the end.

Solution Script:

Flag

```
1 csictf{esreverisjustreverseinreverseright}
```

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