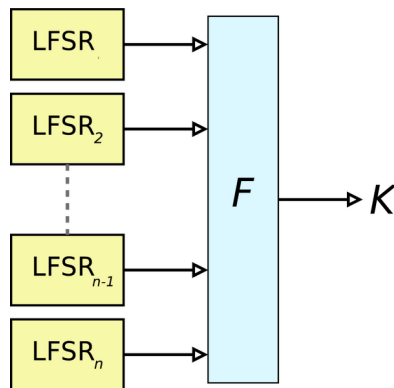


Challenge 18 - Decipher the message

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Many people say that you shouldn't roll your own crypto, but who cares! We've found a completely secure cipher! We're so sure it's safe that we're even giving you its code and a ciphertext. Can you prove us wrong?

Input

The ciphertext

Output

The plaintext

NOTE: In this level, the output for the submit phase is the same as the output for the test phase.

```
#!/usr/bin/env python
import sys

def cipher(pt):
    l = len(pt)
    k = l // 2
    ct = ''
    for i in range(l):
        ct += hex(ord(pt[i]) ^ ord(pt[k]))[2:].zfill(2)
```

```
if ord(pt[i]) % 3 == 0:
    k = (k + 1) % 1
elif ord(pt[i]) % 3 == 1:
    k = (k - 1) % 1
else:
    k = 1 // 2
return ct
```

```
sys.stdout.write(cipher(open('solution.txt').read()))
```

Test your code

You can test your program against both the input provided in the test phase and the input provided in the submit phase. A nice output will tell you if your program got the right solution or not. You can try as many times as you want to. Be careful with extra whitespaces, the output should be exactly as described.

Test your program against the input provided in the test phase

[Download test input](#)

Program output:

Ningún archivo seleccionado

Test your program against the input provided in the submit phase

[Download input](#)

Program output:

Ningún archivo seleccionado

During the submit phase, in some problems, we might give your program harder inputs. As with the test token, a nice output will tell you if your program got the right solution or not. You can try as many times as you need.

In the actual contest you first need to solve the test phase before submitting the code,

you must provide the source code used to solve the challenge and you can only submit once (once your solution is submitted you won't be able to amend it to fix issues or make it faster).

If you have any doubts, please check the [info section](#).

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