

# Modern Clueless Child

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## WriteUp来源

<https://dunsp4rce.github.io/csictf-2020/crypto/2020/07/18/Modern-Clueless-Child.html>

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## 题目描述

*I was surfing the crimson wave and oh my gosh I was totally bugging. I also tried out the lilac hair trend but it didn't work out. That's not to say you are any better, you are a snob and a half. But let's get back to the main question here- Who am I? (You don't know my name).*

```
Ciphertext = "52f41f58f51f47f57f49f48f5df46f6ef53f43f57f6cf50f6df53f53f40f58f51f6ef42f56f43f41f5ef5cf4e"  
(hex) Key = "12123"
```

## 题目考点

## 解题思路

This question needs a number of observations.

First, it can be seen that `f` occurs after every 2 characters. Splitting the ciphertext on `f` yields an array of bytes.

It is known that the flag starts with `csictf{`. When represented in bytes, this results in an array, `63 73 69 63 74 66 7b`. On taking an xor of this array with the first 7 elements of the ciphertext, we get a bytearray, `31 32 31 32 33 31 32`. It can be seen that the unit digit of this bytearray is key.

Hence, taking each element of the key and prepending `3` before it gives an array of bytes. Taking the xor of this key with the ciphertext returns the flag.

```
1 import base64  
2 cipher = "52f41f58f51f47f57f49f48f5df46f6ef53f43f57f6cf50f6df53f53f40f58f51f6ef42f56f43f41f5ef5cf4e".split('f')  
3 key = ['3' + i for i in "12123"]  
4 res = []  
5 for i, n in enumerate(cipher):  
6     x = int(n, 16)  
7     y = int(key[i % len(key)], 16)  
8     res.append(hex(x ^ y)[2:])  
9 res = "".join(res)  
10 print(bytes.fromhex(res).decode())
```

## Flag

```
1 csictf{you_are_a_basic_person}
```

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