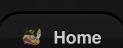
# csictf 2020

CTF Writeup - https://ctftime.org/event/1081



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18 July 2020

## Modern Clueless Child

by anishbadhri

'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"
```

### Solution

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 <code>csictf{</code>. 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.

#### **Solution Script:**

## Flag

```
csictf{you_are_a_basic_person}
```

tags: *Crypto*