

**Name:** Crossing the Red Sea

**Description:** Everything is just f\*cked up here

**Difficulty:** Medium

**Author:** Revak Pandkar

### Writeup:

We can see that the encoded string is a set of letters and numbers

Specifically, there are binary numbers

The challenge hints at the use of esoteric languages like Brainfuck

The challenge name also hints at the separating the numbers and letters (like Moses separated the Red Sea)

So, we can first separate the encoded string into 2 strings using the python program given below:

```

encoded = '\0e0e0e0e0e0e0e0e0e0e0e0p0a0e0a0e0e0e0a0e0e0'

result1 = ''
result2 = ''

binary = ['1', '0']

for char in encoded:
    if char in binary:
        result1 += char
    else:
        result2 += char

print(result1)
print(result2)

```

Knowing that they are binary numbers and that they are esoteric languages involved we can come to know about the Binaryfuck language.

Similarly, this can be done for the alphabets which leads us to the Alphuck language

Using an online decoder like [dcode.fr](https://dcode.fr) we can get the flag

Results

Input: ++++++++[>...--.

Arg:

Output:

vishwaCTF{35073r1c

Memory:

[1] = (10)

[2] = (30)

[3] = 1 (49)

[4] = c (99)

BINARYFUCK INTERPRETER

★ BINARYFUCK CODE TO INTERPRET

00100100100100100100100011001001001000100010001001001001001001  
00100100100100100100100110001100000000001000100000000000000000  
00  
00  
001100  
00000001000010010010010011000000000000000000000000000000100001001  
001001100010001001001001001001001001001001100011001001100010  
001001001001001001001001001001001001001001001001001001001100

★ ARGUMENT

▶ EXECUTE

See also: [Brainfuck – Spoon](#)

BINARYFUCK ENCODER

★ PLAINTEXT TO CODE IN BINARYFUCK ?

### Results

Input:

+++++++[>...++.

Arg:

Output:

\_14ngu4ge5\_4r3\_c001}

Memory:

[1] = [ ] (10)

[2] = [ ] (30)

[3] = [ ] (48)

[4] = [ ] (125)

### ALPHUCK INTERPRETER

★ ALPHUCK CODE TO INTERPRET

eeeeeeeeeeppaaaeaaaaaeaeaeaeaeaeaeaeaeaeaeccccisaaaaiiiiijeeeeeee  
eeeeeejciiiiiiiiiijjaejiiiiiiijeeeeeeeeeejjcjaii  
iiiiiiiiiijjijcejaiiiiijcjiaeeeeeeeeeejjcijiiai  
iiiiiiiiiijjjejjciiiijjaeaeaeaejjeeeeeeeeeejj

★ ARGUMENT

▶ EXECUTE

See also: **Brainfuck**

### ALPHUCK ENCODER

★ PLAINTEXT TO CODE IN ALPHUCK ?

▶ ENCRYPT

See also: **Brainfuck**

Flag: vishwaCTF{35073r1c\_l4ngu4ge5\_4r3\_c00l}