

# [ACTF新生赛2020]base64隐写

原创

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题目下载下来之后有遗传base64编码后的数据

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```

题目提示base64隐写

直接代码运行就跑出来了

代码如下：

```

import base64

def get_base64_diff_value(s1, s2):
    base64chars = 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/'
    res = 0
    for i in range(len(s2)):
        if s1[i] != s2[i]:
            return abs(base64chars.index(s1[i]) - base64chars.index(s2[i]))

    return res

def solve_stego():
    with open('ComeOn!.txt') as f:
        file_lines = f.readlines()
        bin_str = ''
        for line in file_lines:
            steg_line = line.replace('\n', '')
            #norm_line = line.replace('\n', '').decode('base64').encode('base64').replace('\n', '')

            norm_line = line.replace('\n', '').encode('utf-8')
            norm_line = base64.b64decode(norm_line).decode('utf-8')

            norm_line = base64.b64encode(norm_line.encode('utf-8')).decode('utf-8')
            norm_line = norm_line.replace('\n', '')

            diff = get_base64_diff_value(steg_line, norm_line)
            print(diff)
            pads_num = steg_line.count('=')
            if diff:
                bin_str += bin(diff)[2:].zfill(pads_num * 2)
            else:
                bin_str += '0' * pads_num * 2
            print(goflag(bin_str))

def goflag(bin_str):
    res_str = ''
    for i in range(0, len(bin_str), 8):
        res_str += chr(int(bin_str[i:i+8], 2))
    return res_str

if __name__ == '__main__':
    solve_stego()

```

```

ACTF{6aseb4_f33!}
0
ACTF{6aseb4_f33!}
0
ACTF{6aseb4_f33!}
0
ACTF{6aseb4_f33!}
0
ACTF{6aseb4_f33!}
0
ACTF{6aseb4_f33!}

```