The first part of the challenge is the web challenge, since we need to deobfuscate the js code. I used <a href="https://lelinhtinh.github.io/de4js/">https://lelinhtinh.github.io/de4js/</a>. First, I chose Packer option (to unpack it), then I copied the unpacked js into the encoded box and clicker auto-decode. The result is as follows:

```
var FLAG = ['YWg', '/gQ', '0b3', 'wHH', '-%$', '1cf', 'wEH', '%M R', '4fb', 'wLM', '%\"R', '29b', 'HFK', 'MQ', '4e1', 'JHM', 'N
%', 'ac4', 'HMI', '%%', '87b', 'IFv', '$!!', '}'];
var MAXN = 0x32;
function open windows (12, 4) {
    4--;
    popupWindow = window.open('https://' + reverse string( 12[ 4
]), 'popUpWindow', 'height=137, width=137, left=137, top=137');
    setTimeout(() => {
        open windows (12, 4)
    ), 0x3e8)
function reverse string( 14) {
    var 15 = 14.split('');
    var 16 = 15.reverse();
    var 13 = _16.join('');
    return 13
function chunkString( 17, 18) {
    return 17.match(new RegExp('.{1,' + 18 + '}', 'g'))
function enc1( 10) {
    nchunk = [];
    for (var 6 = 0x0; 6 < 10.length; 6++) {
        nchunk.push(String.fromCharCode( 10[ 6].charCodeAt() + 0
x14))
    return nchunk.join('')
function enc2 (9) {
    nchunk = [];
    for (var 5 = 0x0; 5 < 9.length; 5++) {
        nchunk.push(String.fromCharCode( 9[ 5].charCodeAt() - 0x
14))
    return nchunk.join('')
```

```
function enc3 (19) {
   nchunk = reverse string( 19);
    return nchunk
function encode( 3) {
    functs = [enc1, enc2, enc3];
   for (var 2 = 0x0; 2 < 3.length; 2++) {
        3[2] = functs[2 % 0x3](3[2])
   return 3
links = ['moc.elgooG', 'moc.ebutuoY', 'moc.llamT', 'moc.koobecaF
, 'moc.udiaB', 'moc.qQ', 'moc.uhoS', 'moc.llamt.nigoL', 'moc.oa
boaT', 'nc.063', 'moc.dJ', 'gro.aidepikiW', 'moc.oohaY', 'moc.no
zamA', 'nc.moc.aniS', 'moc.obieW', 'moc.llamt.segaP', 'su.mooZ',
'moc.eviL', 'moc.xilfteN', 'moc.tiddeR', 'moc.tenauhniX', 'moc.k
V', 'moc.tfosorciM', 'moc.enozekO', 'moc.eciffO', 'moc.topsgolB'
 'ten.ndsC', 'moc.yapilA', 'moc.margatsnI', 'pj.oc.oohaY', 'vt.
hctiwT', 'moc.smacagnoB', 'kh.moc.elgooG', 'moc.enilnotfosorciM'
 'moc.nimsajeviL', 'moc.gniB', 'moc.swennubirT', 'moc.revaN', '
vt.adnaP', 'vt.iqnahZ', 'pj.oc.nozamA', 'moc.wolfrevokcatS', 'nc
.aynaiT', 'moc.sserpxeilA', 'ni.oc.elgooG', 'moc.rettiwT', 'moc.
yabE', 'moc.yfipohsyM', 'ofni.sretemodlroW'];
open windows (links, Math.floor (Math.random () * MAXN + MAXN / 0x2
));
console.log(encode(FLAG));
```

Now, we need to reverse the encoding of the flag:

```
def dec1(s):
    return ''.join(chr(ord(c) - 20) for c in s)

def dec2(s):
    return ''.join(chr(ord(c) + 20) for c in s)

def dec3(s):
    return s[::-1]

def decode(encoded_flag):
    functs = [dec1, dec2, dec3]
    decoded = encoded_flag[:]
    for i in range(len(decoded)):
        decoded[i] = functs[i % 3](decoded[i])
    return decoded

FLAG = ['YWg', '/gQ', '0b3', 'wHH', '-%$', '1cf', 'wEH', '%MR', '4fb', 'wLM',
'%\"R',
```

```
'29b', 'HFK', 'MQ ', '4e1', 'JHM', 'N%', 'ac4', 'HMI', '%%', '87b',

'IFv',

'$!!', '}']

decoded_flag = decode(FLAG)

concatenated_flag = ''.join(decoded_flag)

print("Decoded FLAG:", concatenated_flag)
```

We basically only need to reverse enc1 enc2 and enc3 to apply the opposite operation on each character of FLAG.

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