

Write Up

The key given is :

YidkM0JxZGtwQlRYdHFhR3g2YUhsZmF6TnFlVGwzWVROclgyZzBOMm8yYXpZnWZRPT0nCg==

Can phai dao nguoc 2 lan bang base64 -d

```
tenebris@tenebris-ASUS-TUF-Gaming-F15-FX507ZC:~/Documents/PicoCTF/Cryptography$  
echo "YidkM0JxZGtwQlRYdHFhR3g2YUhsZmF6TnFlVGwzWVROclgyZzBOMm8yYXpZnWZRPT0nCg=="  
| base64 -d  
b'd3BqdkpBTXtqaGx6aHlfazNqeTl3YTnrX2g0N2o2azY5fQ=='  
tenebris@tenebris-ASUS-TUF-Gaming-F15-FX507ZC:~/Documents/PicoCTF/Cryptography$  
echo "d3BqdkpBTXtqaGx6aHlfazNqeTl3YTnrX2g0N2o2azY5fQ==" | base64 -d  
wpjvJAM{jhlzhy_k3jy9wa3k_h47j6k69}tenebris@tenebris-ASUS-TUF-Gaming-F15-FX507ZC:  
~/Documents/PicoCTF/Cryptography$
```

Roi su dung caesar cypher de giai ma hoa:

```
text = "wpjvJAM{jhlzhy_k3jy9wa3k_h47j6k69}"  
k = 0  
  
while k <= 50:  
    flag = ''  
    for i in range(len(text)):  
        if (text[i] != '{' and text[i] != '}'):  
            if (text[i].islower()):  
                flag += chr((ord(text[i]) + k - 97) % 26 + 97)  
            elif(text[i].isupper()):  
                flag += chr((ord(text[i]) + k - 65) % 26 + 65)  
            else:  
                flag += text[i]  
        else:  
            flag += text[i]  
    print(flag)  
    k += 1  
    print(k)  
=
```