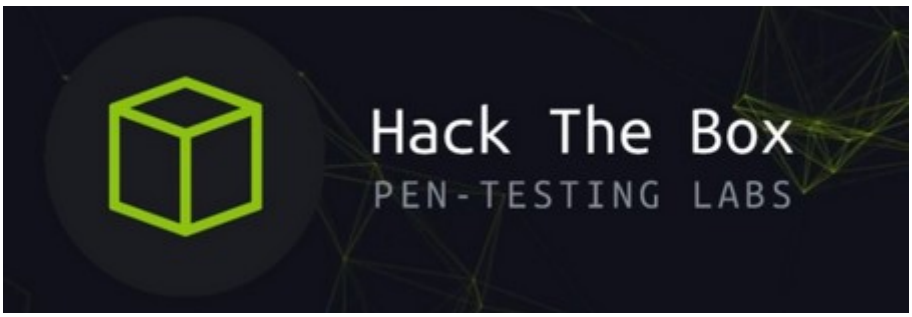
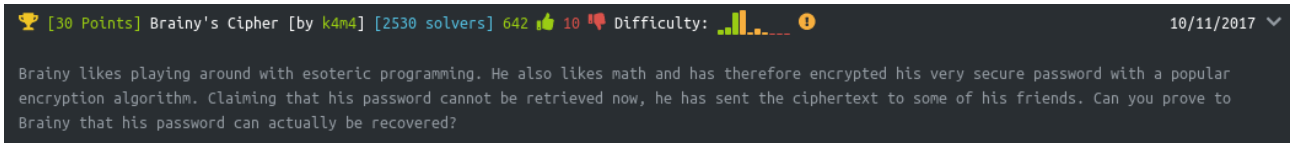
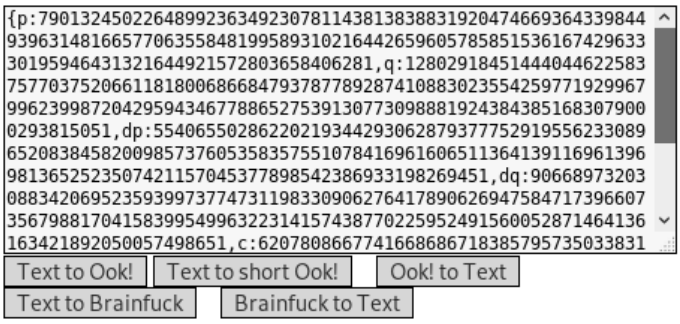


Crypto : Brainy's Cipher



Once extracted you got a txt file named brainy.txt

Beacause of the name of challenge i thinking of Brainfuck cipher, so let's decode it online with a brainfuck decoder https://www.splitbrain.org/_static/ook/


{p:790132450226489923634923078114381383883192047466936433984493963148166577063558481995893102164426596057858515361674296333019594643132164492157280365840628 1,q:128029184514440446225837577037520661181800686684793787789287410883023554259771929967996239987204295943467788652753913077309888192438438516830790002938150 51,dp:554065502862202193442930628793777529195562330890896520838458200985737605358357551078416961606511364139116961396981365252350742115704537789854238693319826945 1,dq:906689732032088342069523593997377473119833090627641789062694758471739660735679881704158399549963223141574387702259524915600528714641361634218920500574986 51,c:620780866774166868671838579573503383144462809126733924480650268502126853265511839620564959645797823253020820543939336822657728027508872936024325129679948055499650209169536446359659166079253356390275791874351806074759633224654177589590023854518631221064878347846880291677201751280820666709456250678038129708 71}

Copy pasting the result on google show us a github with a python script (solve.py) download it https://github.com/zionspike/ctf-writeup/blob/master/Crypto/%5BpicoCTF%202017%5D%20-%20Weird%20RSA%20-%2090/kapi-note.md

Open the script we see something like the result of the brainfuck cipher.

```
        p =
113874805849098549851253358482403842266539299427577563844893812422061571979865552439953351
        q =
129722228752180865474258189614772579151055157059822837268518335080796004605424792679720502
        dp =
819195772616111188086602822995016674222414765313689424808867824454881508674481065676552987
        dq =
357069575758014809337024260850619146475642595470393023692458306581173054893227059556808837
        c =
952727959864751895055189802511370035092926211401663838878548538637206924202041424484240748
```

Replace the p / q / dp / dq / c result with the result of decoded brainfuck cipher, then execute the python script.

```
root@kali:~# python solve.py
Qinv: 220704337201952911765675653562663630182944011601434480318719267734294597214029345583566925914822207084641554600189204004345080805963023444063892299263948
m1: 49437413074993986257824490238275931180994249527518860068137626874351971280859988288289074
m2: 49437413074993986257824490238275931180994249527518860068137626874351971280859988288289074
h: 0
m: 49437413074993986257824490238275931180994249527518860068137626874351971280859988288289074
solved: ch1n3z_r3m4ind3r_the0rem_r0ck$$$_9792
```

And you got the flag.

Flag : HTB{ch1n3z_r3m4ind3r_the0rem_r0ck$$$_9792}