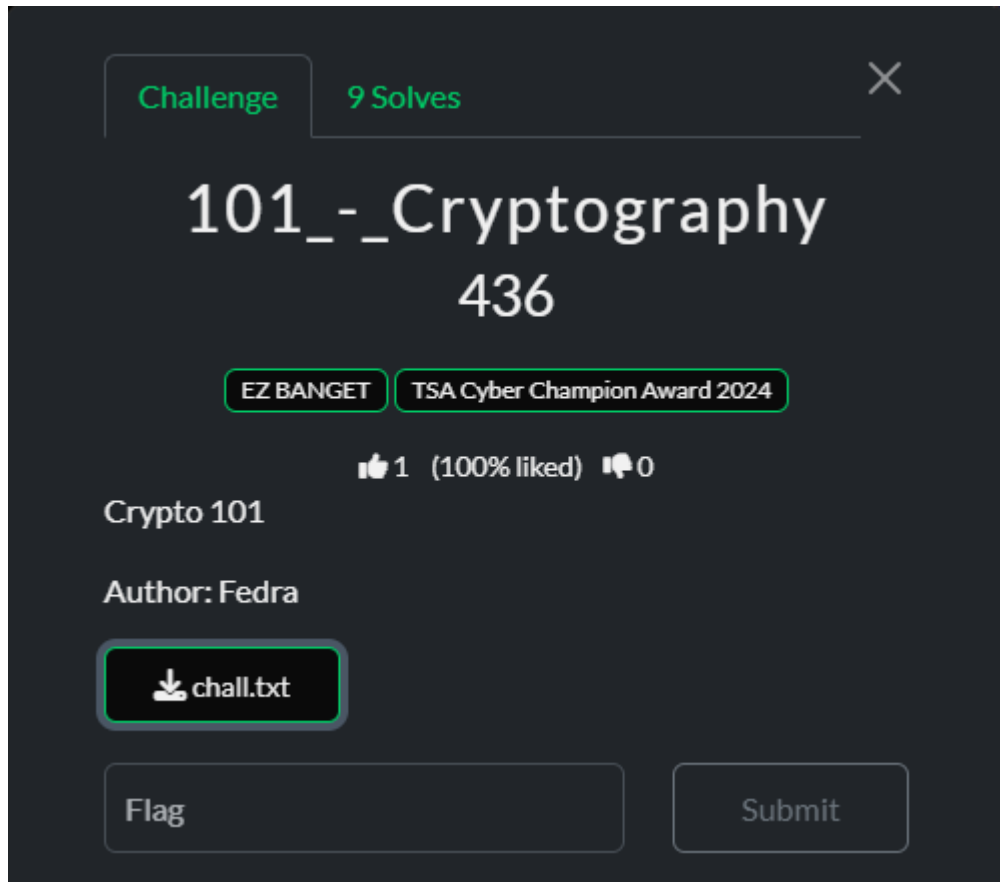


101_-_Cryptography

WriteUp by KxnZ



Lets download the file

```
c =
23172207791468499881899377651894250938446580353154898314686975493266775413631500794349759339664463008907319617027663
84476657656249603332890973244477792907000926644030805841612767780649779028520185573016182734741397777124647095851877
30351308079009718870031364399745764326436147001877583703027251271265576350621173
e = 65537
n =
25720893834693464269351212888881098615163483649815352850763879077076450494671919573698761330252611642587324775003292
92245214293424376214964248258109595189324240071071269349574215615295612646360014769888088439958243951318385779014469
30016348590793828420808295335603083382120208905347497068915850813369038886980997
```

The file seems to contain a RSA Cipher, so lets try to decode it with a tool called “dcode” which is a tool to decrypt/encrypt RSA Cipher



Search for a tool

★ [SEARCH A TOOL ON dCODE](#)

★ [BROWSE THE FULL dCODE TOOLS' LIST](#)

Results


⚠️ X Wiener's attack: failure

✓ P,Q computed with N ((Self-Limited) Prime Factors Decomposition)

✓ D computed with P,Q,E

✓ Decryption using C,D,N

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dCode is preparing a new interface. Come test and give your feedback on the [new page: RSA Cipher!](#)

RSA CIPHER

Cryptography · Modern Cryptography · RSA Cipher

RSA DECODER

Indicate known numbers, leave remaining cells empty.

★ VALUE OF THE CIPHER MESSAGE (INTEGER) C=

★ PUBLIC KEY E (USUALLY E=65537) E=

★ PUBLIC KEY VALUE (INTEGER) N=

★ PRIVATE KEY VALUE (INTEGER) D=

★ FACTOR 1 (PRIME NUMBER) P=

★ FACTOR 2 (PRIME NUMBER) Q=

★ INTERMEDIATE VALUE PHI (INTEGER) Φ=

★ DISPLAY ☒ PLAINTEXT AS CHARACTER STRING

☐ COMPUTED VALUES (C,D,E,N,P,Q,...)

☐ PLAINTEXT AS INTEGER NUMBER

☐ PLAINTEXT AS HEXADECIMAL FORMAT

▶ CALCULATE/DECRYPT

RSA CERTIFICATE READER

★ CERTIFICATE (STARTING WITH -----BEGIN...KEY-----)

▶ EXTRACT VALUES

And there we go, we instantly got the Flag

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