

# Assignment 9. Hashes, RSA, DHE

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## Crypto basics 1

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Used <https://crackstation.net>, got answer "weak"

## Crypto basics 2

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k does not exist in hex. Length of 65 is a strange length for hex, so the probable solution is to remove k.

Used <https://crackstation.net>:

Hash	Type	Result
98d94155e1296aac105c4923290c89eeeb3ba26d3eef92	sha256	4dM1n

SHA-1: A7C9D5A37201C08C5B7B156173BEA5EC2063EDF9

## Crypto basics 3

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[This code](#) was used.

Bravo! Pour valider le challenge, la clef est NoSpamWithRSA!

Well done, the key for th challenge is NoSpamWithRSA!

## Crypto basics 4

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```
q=1357
g=10
for i in range(1000):
    for j in range(1000):
        if (g**i)%q==419 and (g**j) % q == 34:
            a = i
            b = j

print(a,b)
```

$$a = 521$$

$$b = 619$$