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4. Small Difference Attack

def DecipherSmallDiff(c, n, e):
    decipheredtext = ''
    sqrtN = int(round(np.sqrt(float(n))))
    for i in range(sqrtN - 5000 , sqrtN ):
        if n % i == 0:
        decipheredtext = Decrypt(c, i, n // i, e)
        break
        return decipheredtext

p = 1000000000

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n = p * q
    e = 239
    ciphertext = Encrypt("attack", n, e)
    message = DecipherSmallDiff(ciphertext, n, e)
    print(message)

(144)

/ 0.4s

Python
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