

## Q2: Shouldn't have skipped algebra class pt.2

### The input:

8726f6f6d49276df3358996f757220627261696e206c696b65236f6e6f7573200206b696c6c6966120706f6976d75736

Notice the equation: 
$$e^{4-7x} + 11 = 20$$

When we solve this equation, we get the value of x in the form

$$x = \frac{a-b}{-c}$$

$(c-b)^{(c-b)} + b + 1$  is a hint for the encryption used. What happens when you apply that encryption on the input string?

The flag is of the **format** `CTF{ Output_string }`