# ROT ROT ROT Your Boat - Writeup

You get given the text

```
You've reached Week 9, good job!

Imagine if a Caesar Cipher just kept rotating, wouldn't that just cause your
fun levels to raise from 32 to 365?!
```

This is all a hint for what you need to do...

9 indicates the shift from which we'll start for our rotation cipher and 32 & 365 indicate the ASCII values to go between... from here it's a case of scripting how you'd like to solve this. Attached is the code for making this work.

```
def encrypt(text, shift):
    result = []
    min_ascii, max_ascii = 32, 365  # Range of printable ASCII characters
    ascii_range = max_ascii - min_ascii + 1  # Total number of characters in
this range

    for char in text:
        # Convert character to ASCII and apply the rotating shift
        ascii_value = ord(char)
        new_ascii = (ascii_value - min_ascii + shift) % ascii_range +
min_ascii

        # Convert back to char and add to our answer
        result.append(chr(new_ascii))

        # Increment shift for the next character to keep rotating
        shift += 1

    return ''.join(result)

# Example usage
text = 'I thought it would be funny to mess with you and make this way longer
then it needed to be. Anyway, here is your flag: hacksoc_ctf{cRACKed_iTTTtt}'
shift = 9
a = encrypt(text, shift)
print(a)
f = open("output.txt", "a", encoding="UTF-8")
```

```
f.write(a)
f.close()
```