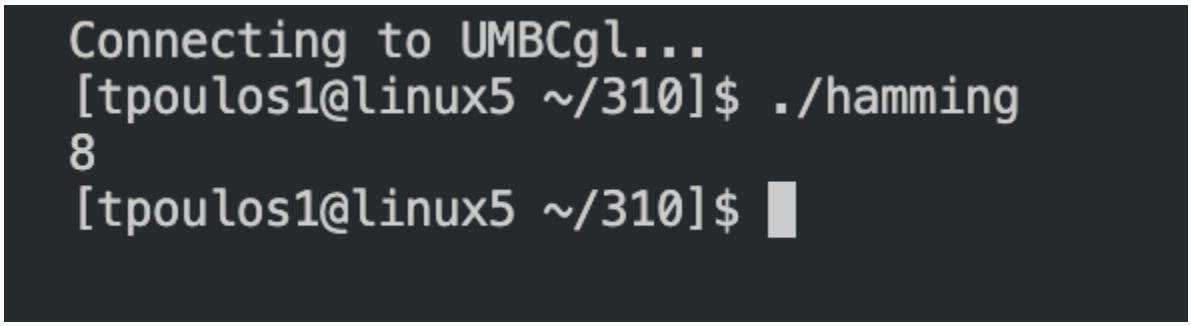
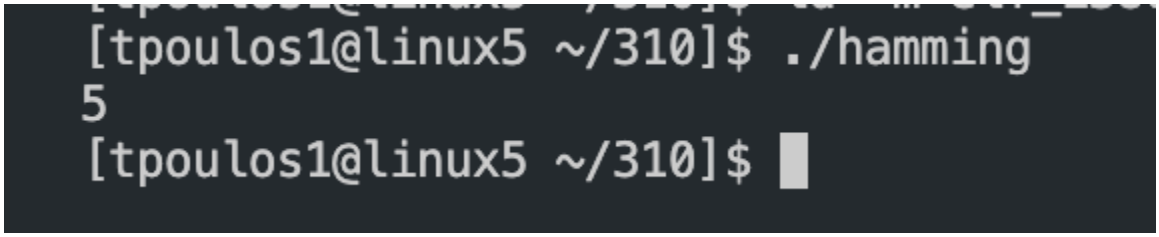
I came up with this code by first thinking about the main problem. how i'm going to compare the binary once i had it. I decided that Xor would be the best method to do it since it's good at taking 2 values, comparing them and outputting the result into a register. Then I wanted to figure out the best way to make binary out of the strings. I ended up having an inner and outer loop. My outer loop consisted of iterating through each letter of each word. My inner loop was to iterate through each individual bit. I would compare each bit and then whenever I would find a difference it would add 1 to my counter in section.bss. Once i've iterated through everything i went and converted the amount to asci and sent it to console to output

Foo and bar



Blob and boar



Par and you