What Happens to reverse_bits' Changes to arg? What about this call? uint32_t arg = 42; uint32_t arg_rev; arg_rev = reverse_bits (arg); Now does arg (shown) change? No. arg in the function is scoped in the function. arg in the code above is scoped in the enclosing function (not reverse_bits!).

```
Second Task: Convert Octal ASCII to 2's Complement

Second task: convert a 5-digit octal number with a sign (all in ASCII) into a 2's complement value.

For example,

"+10201" converts to 4225

(=8<sup>4</sup>+2×8<sup>2</sup>+8<sup>0</sup>), and

"-00321" converts to -209

(= -(3×8<sup>2</sup>+2×8<sup>1</sup>+8<sup>0</sup>).

What is the function signature?
```

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```
As we do in assembly:

• subtract '0' from each digit,

• shift the resulting three bits per digit left to match the digit's place value, and

• add the digits up (or OR them together).

Handle the sign last.
```

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