Andrew Judge Summary
add x10, x10, x25:
r type:
000000110010101000010100110011
ld x9, 0(x10):
I type :
00000000000001010011010010000011
addi x22, x22, 1:
I type :
000000000011011000010110001011
slli x11, x22, 3:
I type:
000000000111011000101011001011
bne x8, x24, -4:
Sb Type:
1111111110000100001110011100111

Summary:

I wrote the code to first check if the type description in the riscv code was within any of the categories (r type, itype etc.), then I called a function based on the type, within which had logic for each specific operation present on the sheet. For the bne operation, I used bitwise logic (&) and bit shifting to "slice" portions of the binary that I put in the machine code.