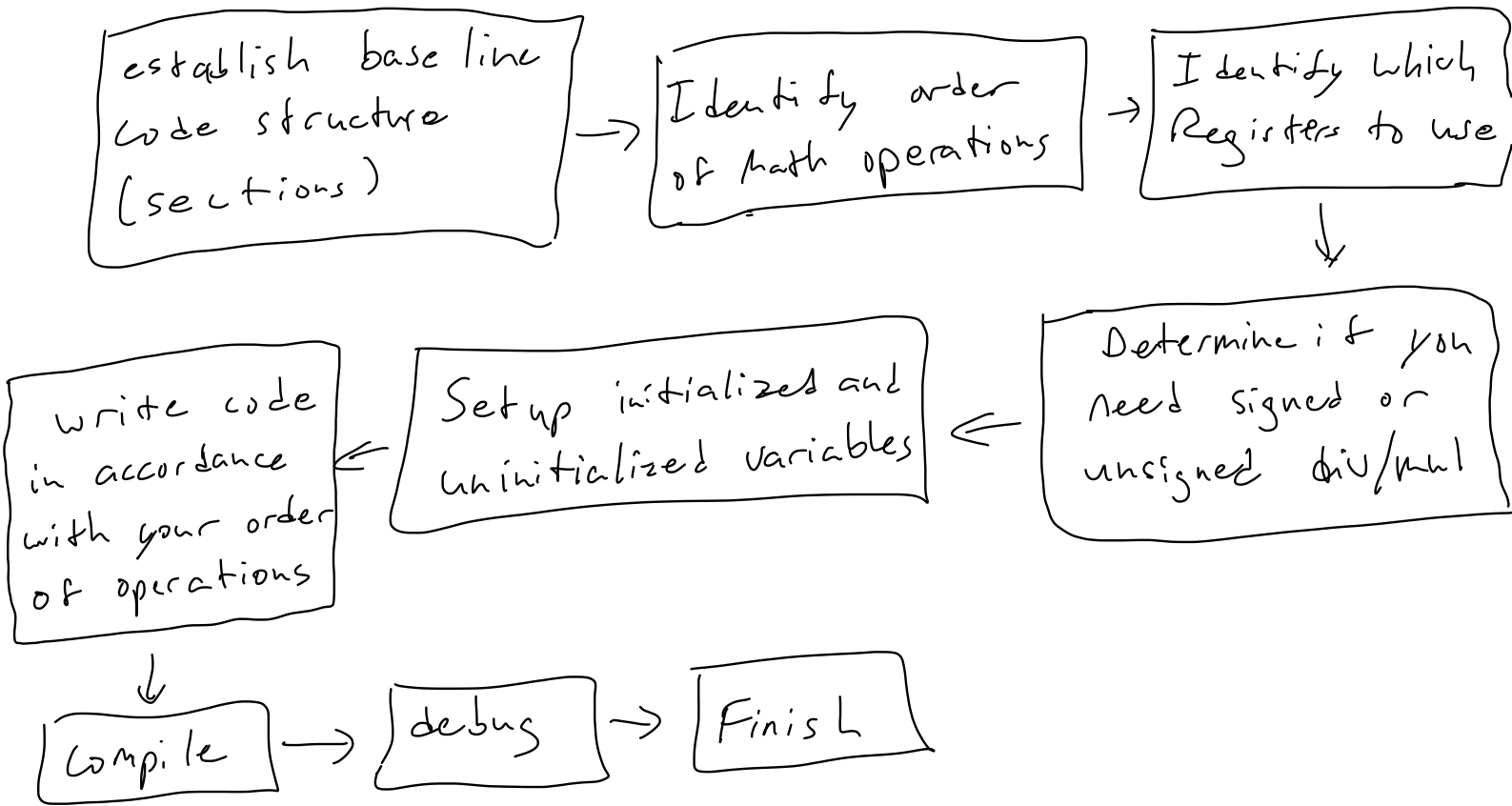


1) Flow chart



2) Challenges :

I struggled with the negative values at first. I didn't realize the uninitialized variable needed to be 32 bits to account for a signed integer and I was using "mul" instead of "imul". Once I figured out those mistakes, I used the appropriate registers, operators and variables sizes, fixing all my issues.