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For our assembler, we ended up creating a dictionary mapping for the binary op codes to our operations. We also mapped the register values for certain registers and immediate values we used. We then had an input file for the assembly and formatted each line so it would leave only the necessary information. Using the dictionary map we were able to translate each operation into the op code, then append the register or immediate values for a total of 9 bits each line. We ignored all comments and mapped the relative address for each label so that we could input the offset as well.