Report

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Input is given in the form of a file.So,I had read the file and stored it into a vector of strings (since c++ supports vectors(similar to array) and strings).Converted each hex instruction into a binary instruction by using "hextobin"(created by me).After that I pass both hex instruction and binary instruction into a function "instructions" (created by me).In this function I categorized the type of instruction using opcode obtained from the binary instruction and then for each type of instruction I had written different functions i.e;

- "Rtype" for R-type instruction
- "Itype" for I-type instruction
- "Stype" for S-type instruction
- "Utype" for U-type instruction
- "B1type" for B-type instruction without labels
- "B2type" for B-type instruction with labels
- "J1type" for B-type instruction without labels
- "J2type" for B-type instruction with labels

Rtype:

As R-type instructions have a single opcode.so,I didn't pass that as an argument to the Rtype function,passed bin instruction as string as arguments.To calculate rs1,rs2,rd, I