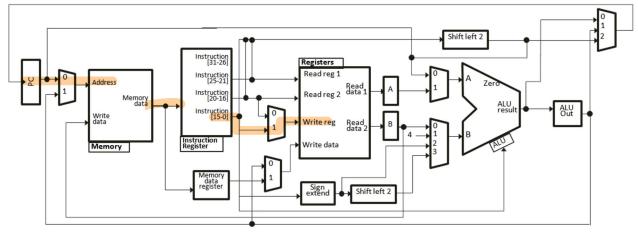
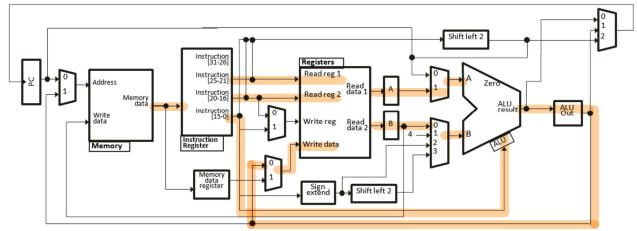
## Part I: Processors, part 3 (12 marks)

Consider the datapath diagrams below. For each of the following operations, highlight the path(s) on the diagram that data will travel in implementing these operations. (4 marks each)

Sw \$m, 0(\$9P) a) Store the program counter in the return address register.



SZEro add \$to. b) Set \$t0 to zero.



c) Fetch the top element from the stack and store it in \$±0.

