Computer Architecture CA#1 report
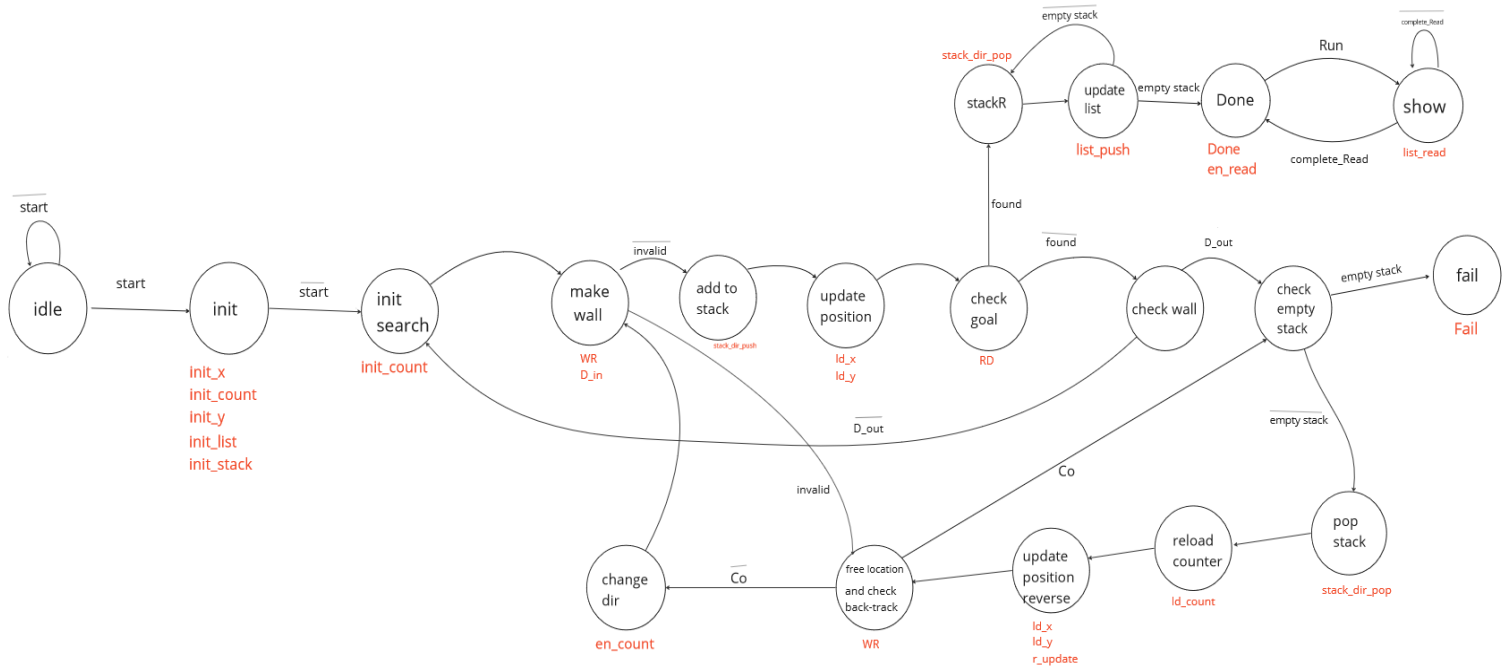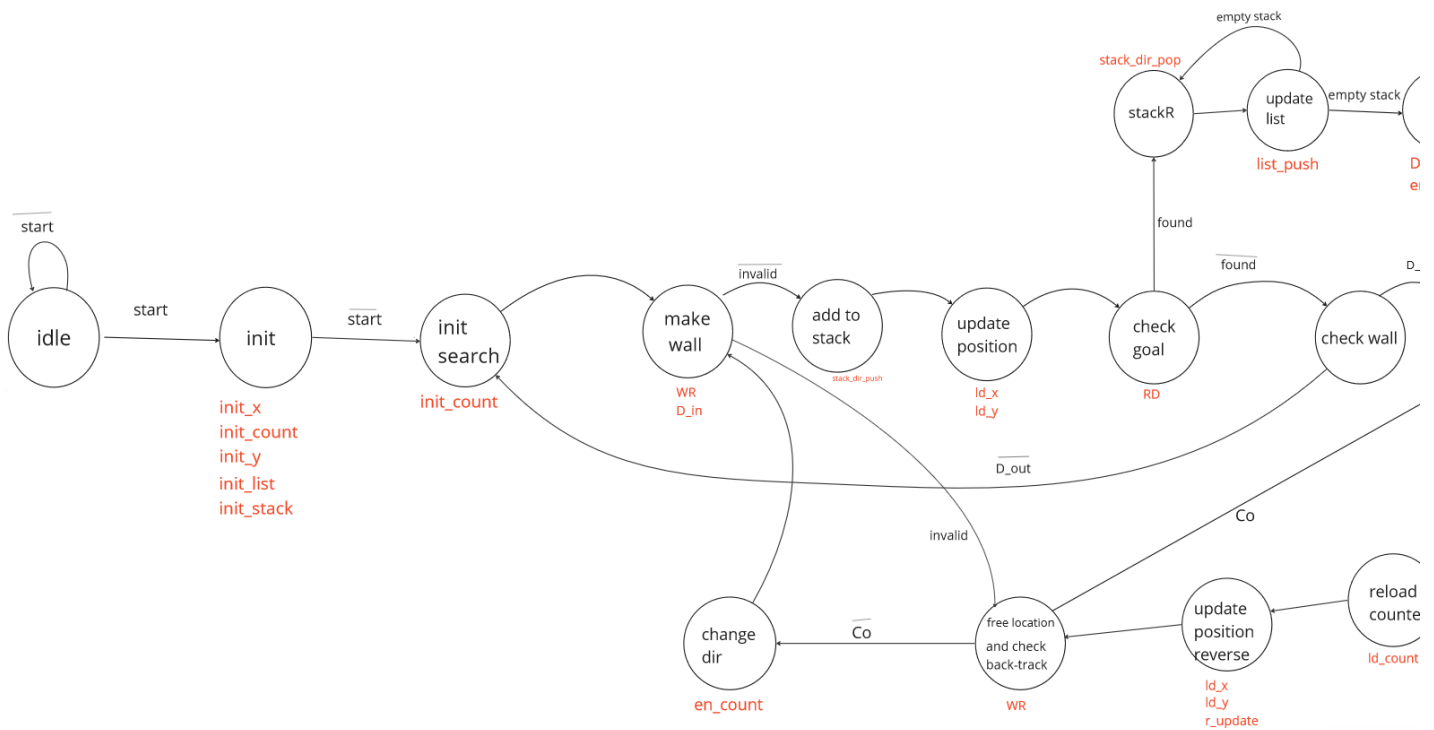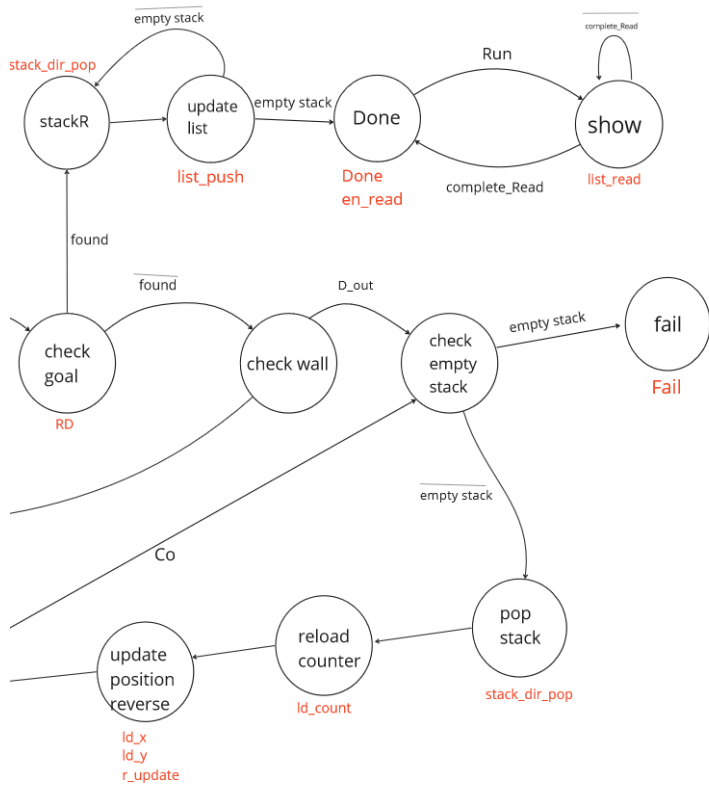
الهه خداوردی 810100132
شهریار عطار 810100186

controller
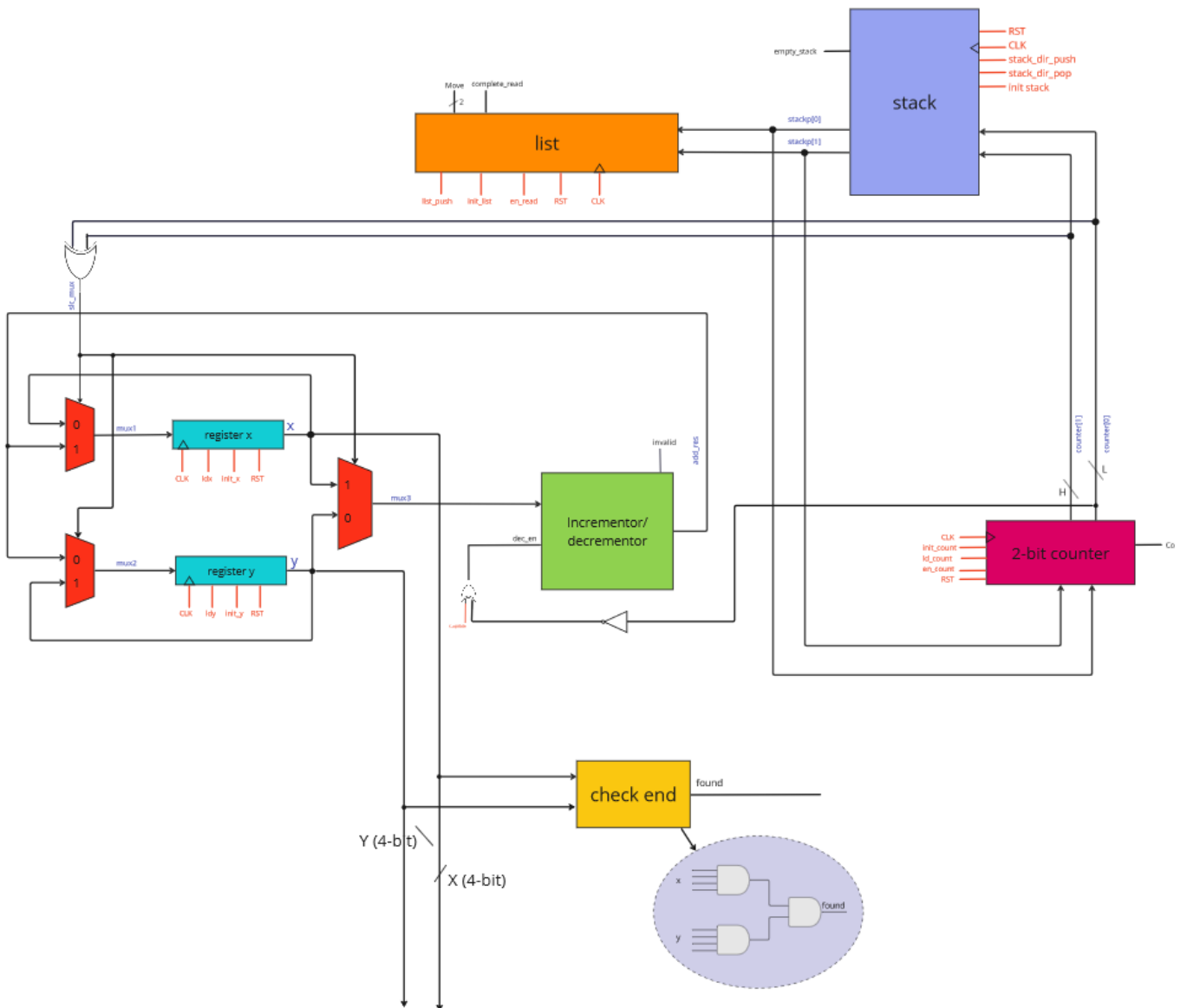

with better quality

State Diagram (top):

- empty stack (self-loop on stackR)
- stack_dir_pop — stackR
- update list — list_push
- empty stack → Done — en_read
- Run → show — list_read
- complete_Read (self-loop on show)
- complete_Read → Done
- found — check goal — RD
- found → check wall
- D_out → check empty stack
- empty stack → fail — Fail
- empty stack → pop stack — stack_dir_pop
- reload counter — ld_count
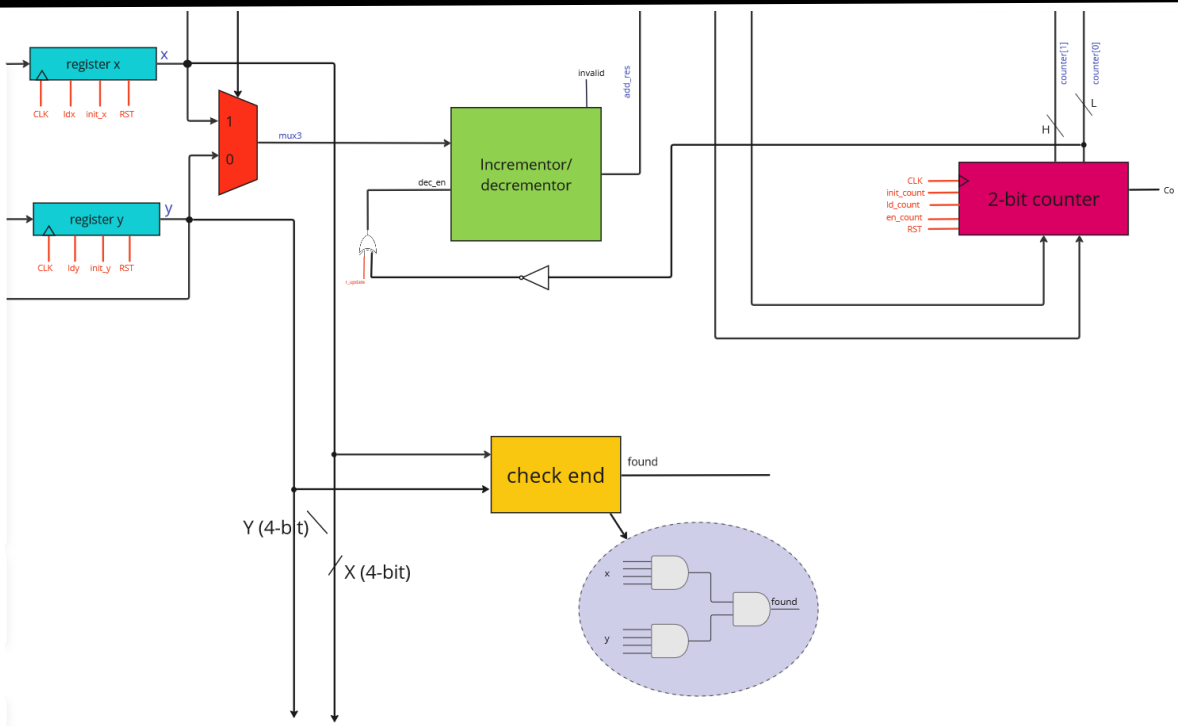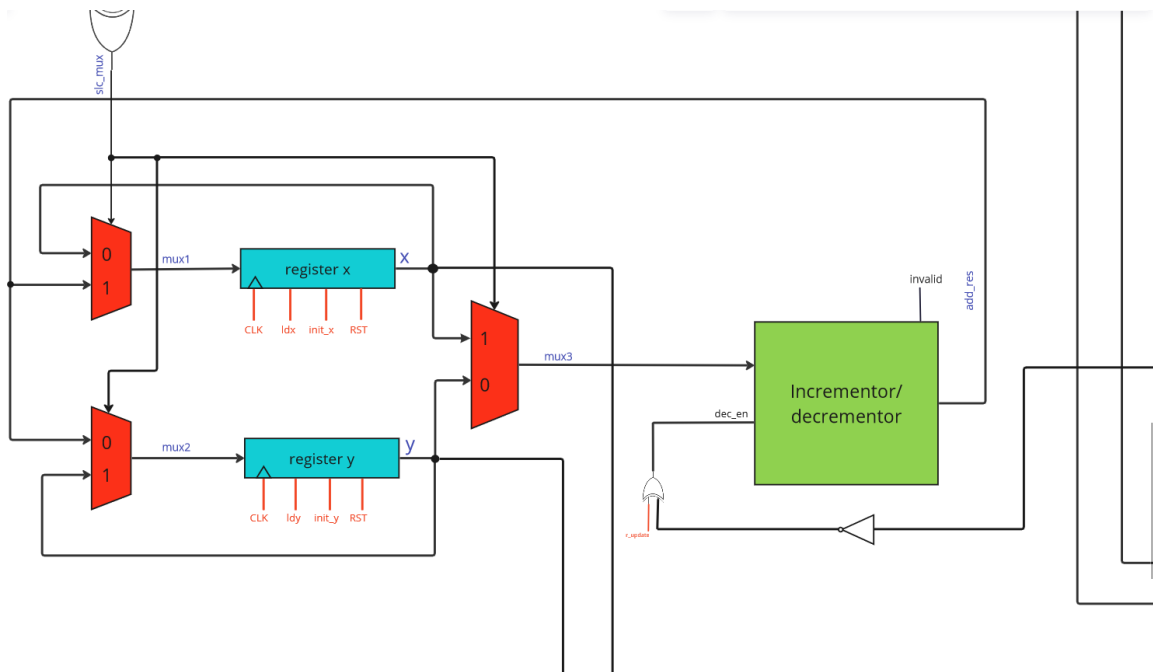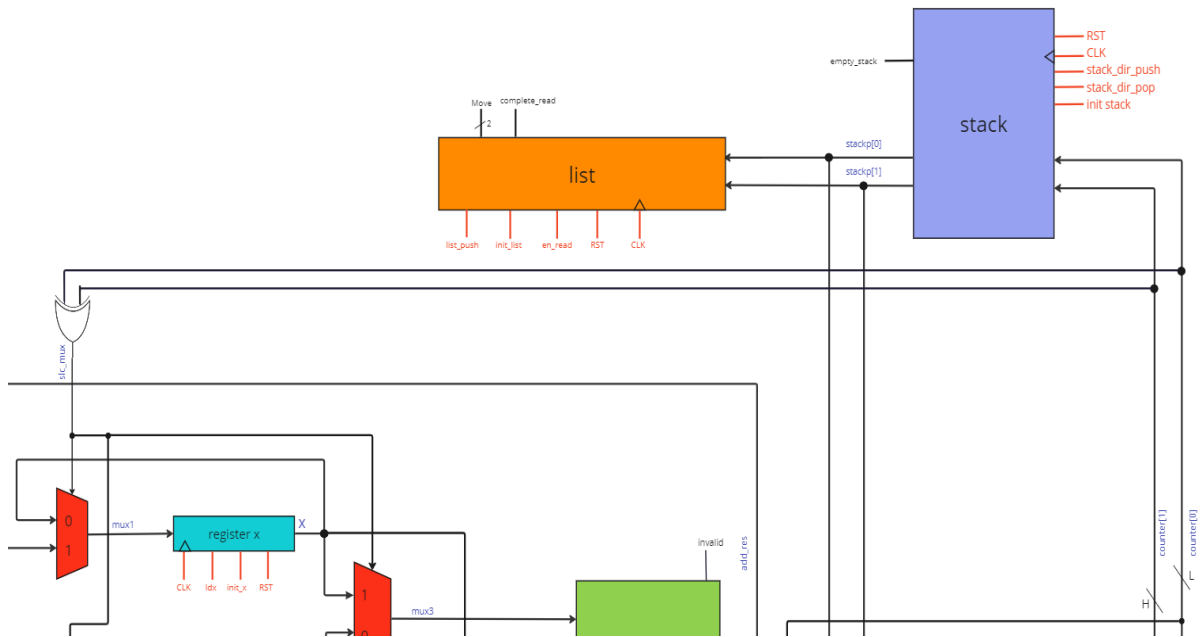- update position reverse — ld_x, ld_y, r_update
- Co

Datapath

parts with better quality

Abstract design