1) Show the instances where Data Forwarding is required in a pipelined datapath with the following instructions

sub \$2, \$1, \$3 add \$12, \$2, \$5 or \$13, \$6, \$2 add \$15, \$2, \$2 sw \$15, 100(\$2)

SUB FDEMW

add SSFDEMW Stall for SI

OF DEMW

Add FDEMW

SS FDEMW Stall for SIA

12340 678 a (8 11713)