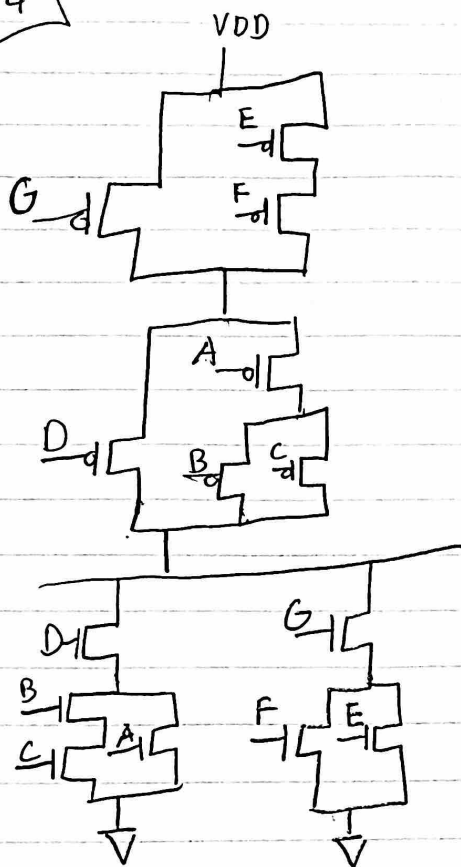


Q4



$$Nmos \frac{4}{1} \quad pmos \frac{8}{1}$$

$$pmos \quad \frac{W}{L}(B) = \frac{W}{L}(C) = \frac{W}{L}(A) = \frac{32}{1}$$

$$\frac{W}{L}(F) = \frac{W}{L}(E) = \frac{32}{1}$$

$$\frac{W}{L}(G) = \frac{W}{L}(D) = \frac{16}{1}$$

$$Nmos \quad \frac{W}{L}(D) = \frac{W}{L}(C) = \frac{W}{L}(B) = \frac{12}{1}$$

$$\frac{W}{L}(A) = \frac{6}{1}$$

$$\frac{W}{L}(F) = \frac{W}{L}(G) = \frac{8}{1}$$