

Mixed Logic Understanding

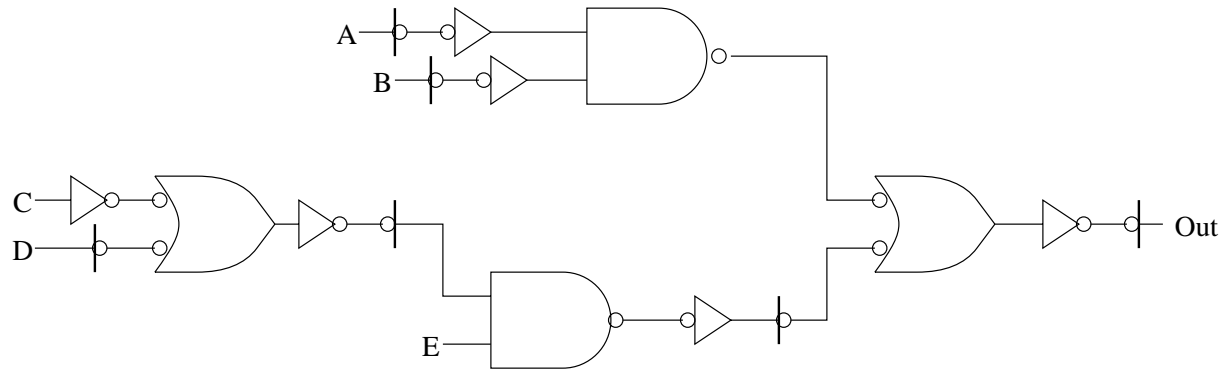
Part A $F_{(A,B,C,D,E,F)} = \overline{(A+B)}(\overline{C+D})\overline{(E+F)}$

Part B $F_{(A,B,C,D)} = \overline{A\overline{B} + C\overline{D}}$

Part C $F_{(A,B,C,D,E)} = \overline{\overline{A\overline{B} + (C+\overline{D})E}}$

Part D 24 transistors

Part E

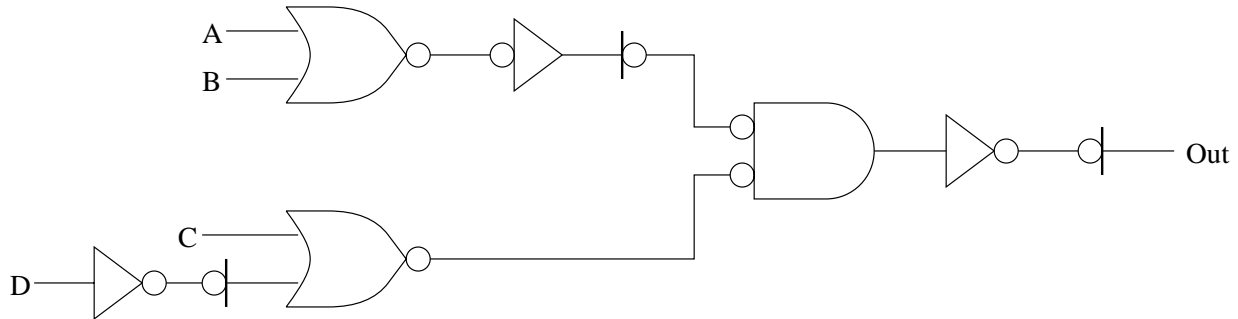


Part F 28 transistors

Part G $F_{(A,B,C,D)} = \overline{(A+B)(C+\overline{D})}$

Part H 20 transistors

Part I



Part J 18 transistors

Part K $F_{(A,B,C,D,E,F,G)} = \overline{\overline{A\overline{B}C\overline{D}}(E+\overline{F})} + G$

Part L $(1 \times 6) + (4 \times 4) + (2 \times 8) = 38$ transistors

Part M

