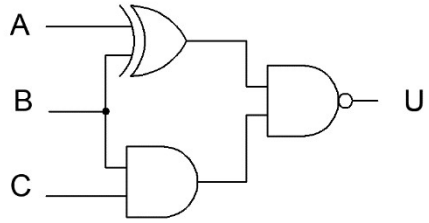
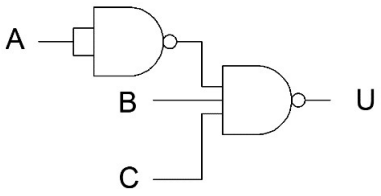
ESERCIZIO ESEMPIO

CALCOLARE L'USCITA U E MINIMIZZARE CON ALGEBRA DI BOOLE

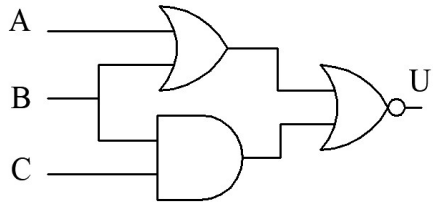


CIRCUITO MINIMIZZATO

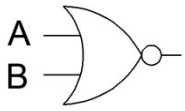
$$U = \overline{(\overline{A} * B + A * \overline{B}) * B * C} = \overline{\overline{A} * B * B * C + A * \overline{B} * B * C} = \overline{\overline{A} * B * C}$$

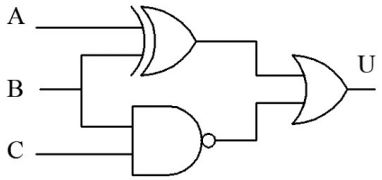


ESERCIZI DA SVOLGERE



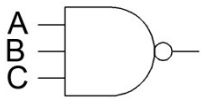
$$U = \overline{(A + B) + B * C)} = \overline{A + B + B * C} = \overline{A + B * (1 + C)} = \overline{A + B}$$

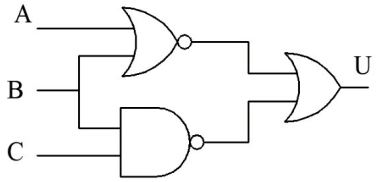




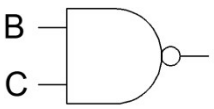
$$U = \left(\overline{A} * B + A * \overline{B}\right) + \overline{B * C} = \left(\overline{A} * B + A * \overline{B}\right) + \overline{B} + \overline{C} = \overline{A} * B + A * \overline{B} + \overline{B} + \overline{C} =$$

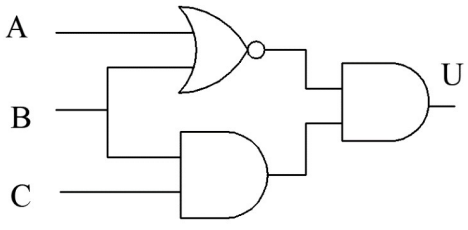
$$= \overline{A} * B + \overline{B} * (A + 1) + \overline{C} = \overline{A} * B + \overline{B} + \overline{C} = (\overline{A} + \overline{B}) * (B + \overline{B}) + \overline{C} = \overline{A * B * C}$$





$$U = \overline{(A + B)} + \overline{B * C} = \overline{A} * \overline{B} + \overline{B} + \overline{C} = \overline{B} * \left(\overline{A} + 1\right) + \overline{C} = \overline{B} + \overline{C} = \overline{B * C}$$





$$U = \left(\overline{A + B}\right) * B * C = \overline{A} * \overline{B} * B * C = 0$$

CIRCUITO INUTILE perché USCTA =0 SEMPRE