

تمرین سری اول

شہروز اکبری پور

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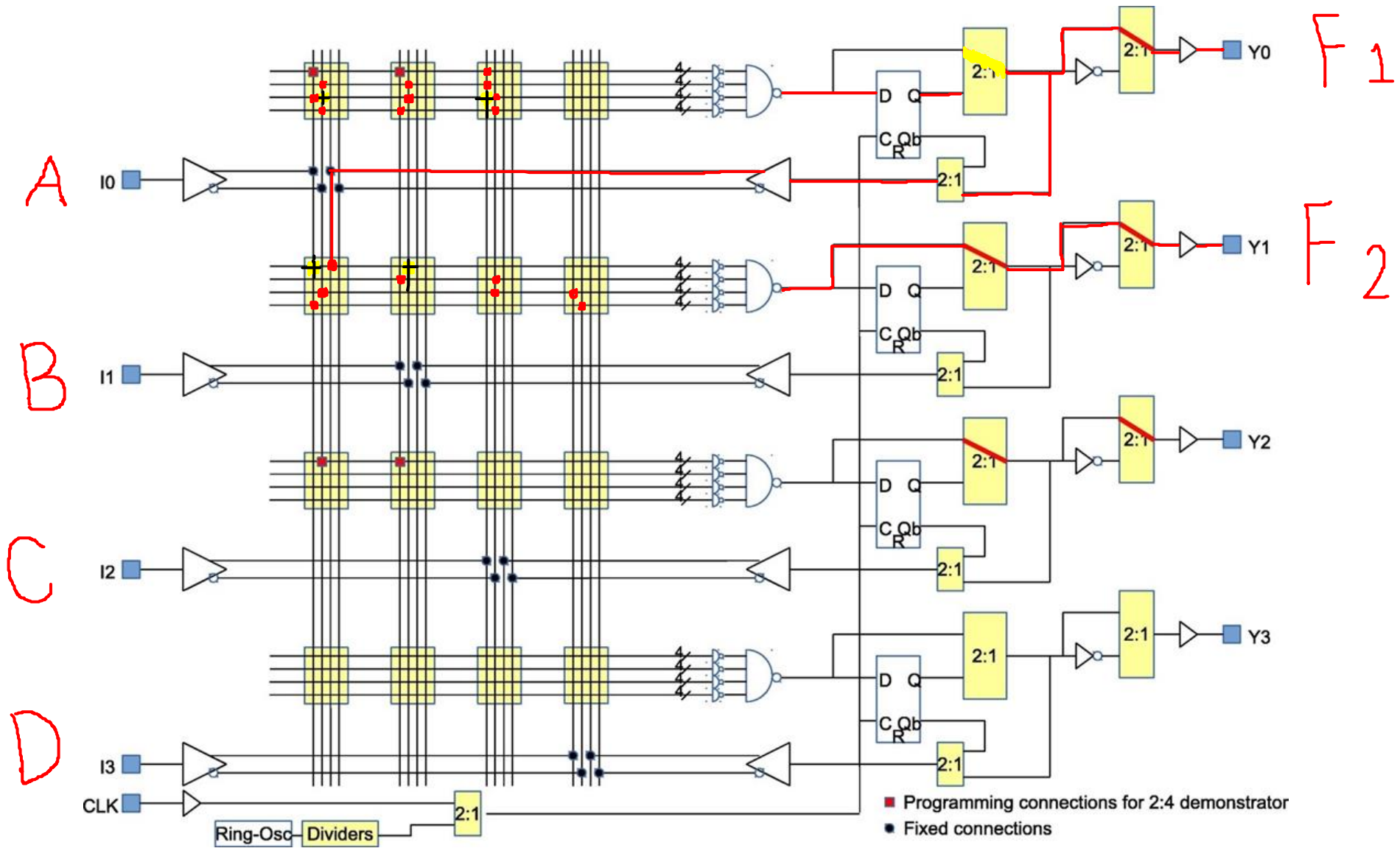
( جواب 1 )

$$F_1 = A \oplus B \oplus C$$

$$= (AB' + A'B) \oplus C = (AB' + A'B)C' + (AB' + A'B)'C$$

$$= AB'C' + A'BC' + A'B'C + ABC$$

$$F_2 = BC' + A'C'D + AD' + F_1$$



جواب 2 )

$$Z = (A'B)'F + A'B'F + ACD'F + BC'DF' = F(A + B' + A'B' + ACD') + BC'DF'$$

$$= F \left[ A(\underbrace{1 + CD'}_1) + B'(\underbrace{1 + A'}_1) \right] + BC'DF' = F(A + B') + BC'DF'$$

$$Z = FA + FB' + BC'DF'$$

$$P = BC'DF'$$



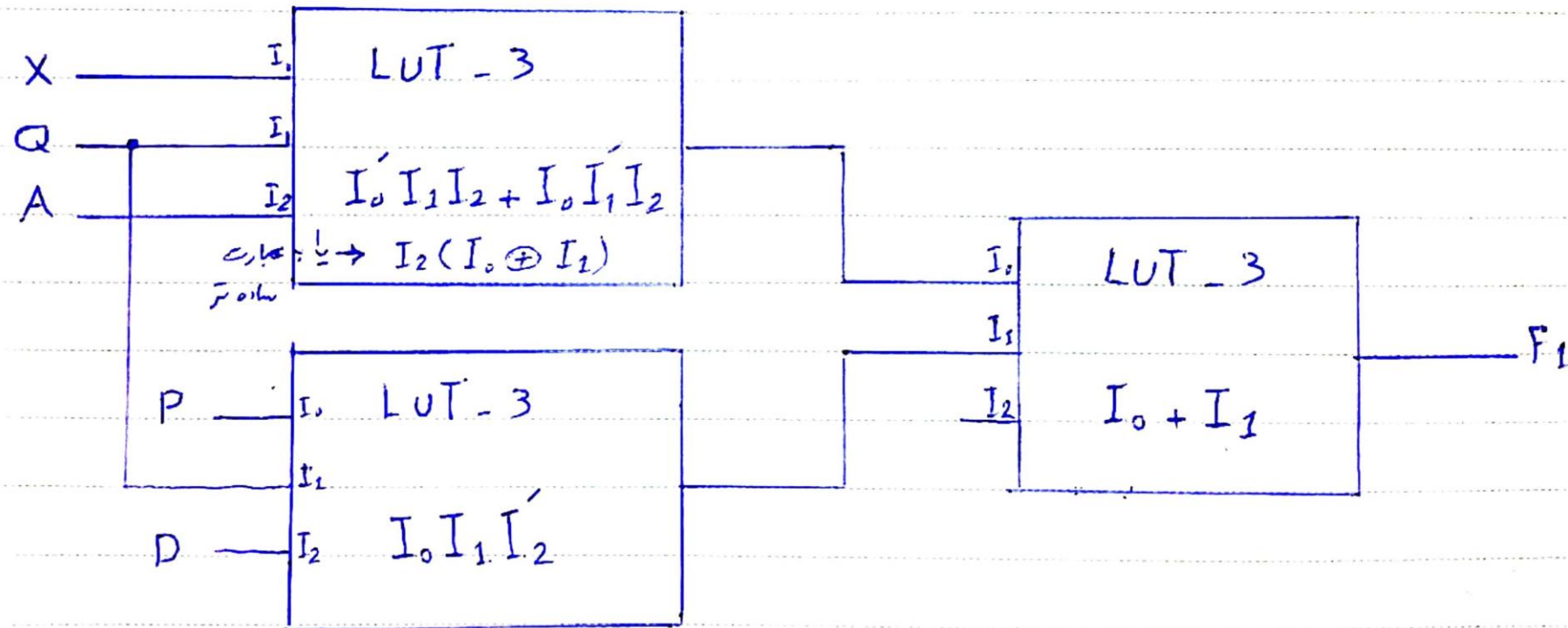
جواب 3

$$F_1 = \underline{x'QA} + xQ'A + pQD' + \underline{xQRA}$$

$$= \underline{x'QA(1+R)} + xQ'A + pQD' = \underline{x'QA} + xQ'A + pQD'$$

$$= A(x'Q + xQ') + pQD' = A(x \oplus Q) + pQD'$$

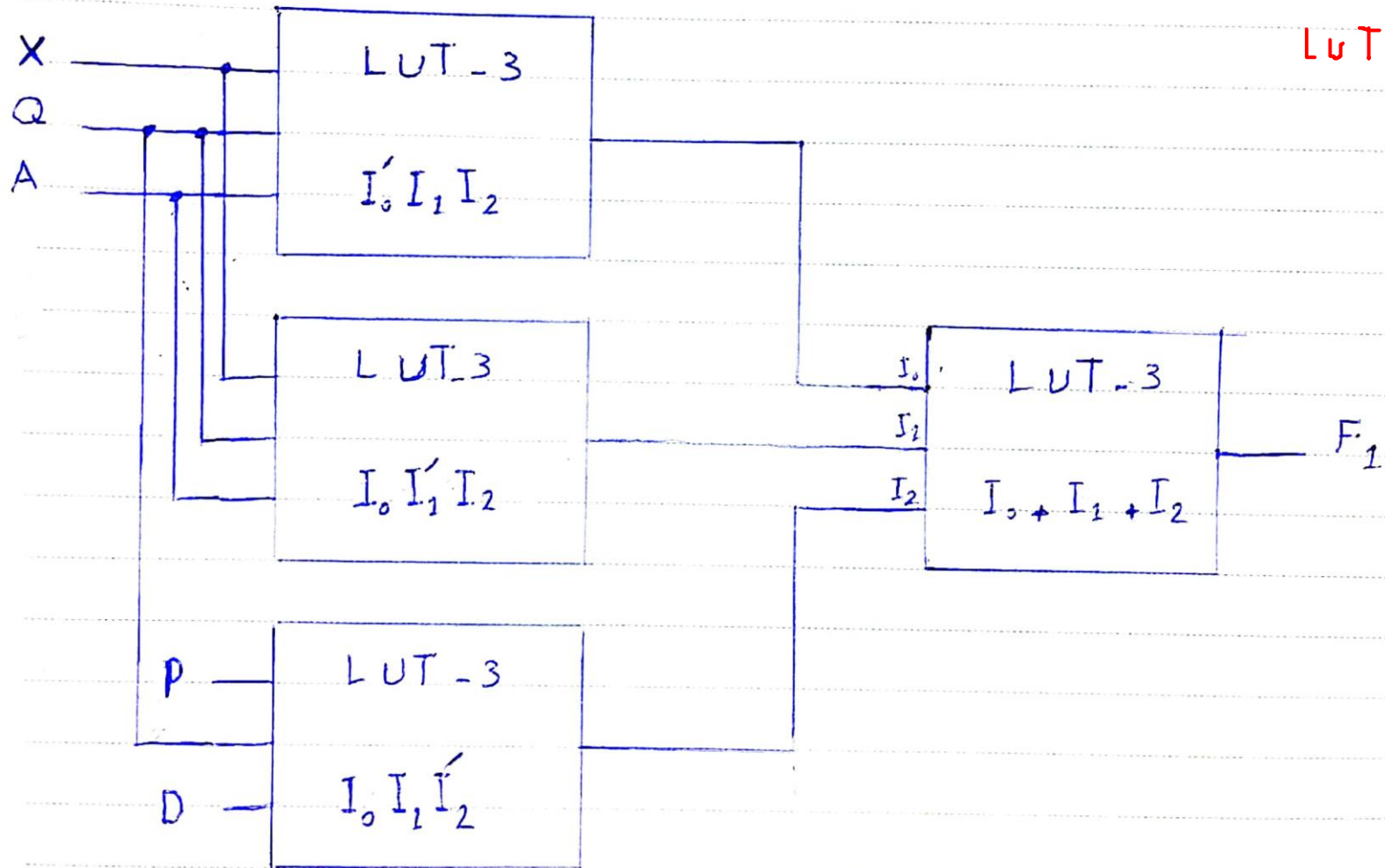
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جواب 3

$$F_1 = \underline{x'QA} + xQ'A + pQD' + \underline{x'QRA}$$

$$= \underline{x'QA(1+R)} + xQ'A + pQD' = \underline{x'QA} + xQ'A + pQD'$$



ل 4 عدد LUT-3



