

Prob C.III.1. $M = 10$ y $N = 10$.

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Prob C.III.2. $P = 62.5\mu\text{W}$.

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Prob C.III.3.

1. $\text{OUT}_0 = \overline{\text{INP}_0 + \text{INP}_2 + \text{INP}_3}$, $\text{OUT}_1 = \overline{\text{INP}_2}$, $\text{OUT}_2 = \overline{\text{INP}_0 + \text{INP}_2}$, $\text{OUT}_3 = \overline{\text{INP}_1 + \text{INP}_3}$.

2. $\{\text{OUT}_0, \text{OUT}_1, \text{OUT}_2, \text{OUT}_3\} = \{0,1,1,0\}$, $\{0,1,0,1\}$ y $\{0,0,0,1\}$.

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Prob C.III.5.

1. $\text{OUT}_0 = \overline{\text{INP}_2}$, $\text{OUT}_1 = \overline{\text{INP}_0 \cdot \text{INP}_3}$, $\text{OUT}_2 = \overline{\text{INP}_1 \cdot \text{INP}_2}$, $\text{OUT}_3 = \overline{\text{INP}_0 \cdot \text{INP}_2}$.

2. $\{\text{OUT}_0, \text{OUT}_1, \text{OUT}_2, \text{OUT}_3\} = \{1,1,1,1\}$, $\{1,1,1,1\}$ y $\{0,1,0,1\}$.

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Prob C.III.7. $\text{OUT}_0 = \overline{\text{INP}_0 \cdot \text{INP}_1 \cdot \text{INP}_3}$, $\text{OUT}_1 = \overline{\text{INP}_2 \cdot \text{INP}_3}$, $\text{OUT}_2 = \overline{\text{INP}_0 \cdot \text{INP}_1 \cdot \text{INP}_2}$,
 $\text{OUT}_3 = \overline{\text{INP}_2 \cdot \text{INP}_3}$.