

Organização e Arquitetura de Computadores

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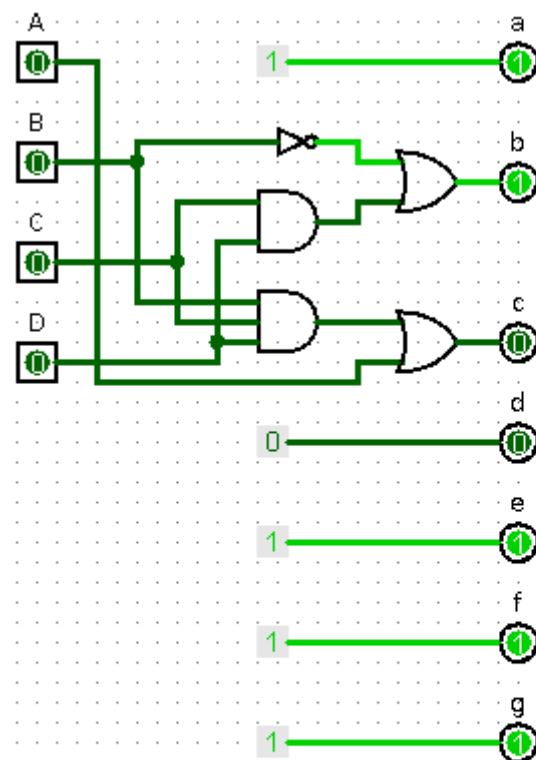
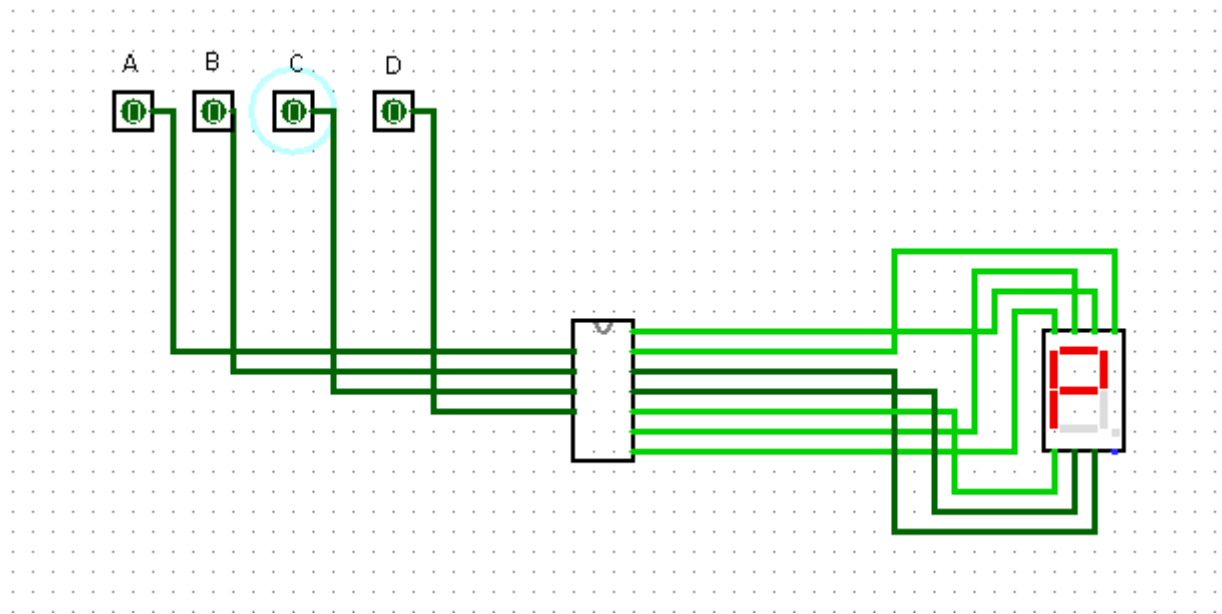
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EXERCÍCIO PRÁTICO 2

QUESTÃO 1:

| TABELA VERDADE | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---------|
| A | B | C | D | S | a | b | c | d | e | f | g | display |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | P |
| 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | P |
| 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | P |
| 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | P |
| 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | F |
| 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | F |
| 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | F |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | A |
| 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | A |
| 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | A |
| 1 | 0 | 1 | 0 | x | x | x | x | x | x | x | x | x |
| 1 | 0 | 1 | 1 | x | x | x | x | x | x | x | x | x |
| 1 | 1 | 0 | 0 | x | x | x | x | x | x | x | x | x |
| 1 | 1 | 0 | 1 | x | x | x | x | x | x | x | x | x |
| 1 | 1 | 1 | 0 | x | x | x | x | x | x | x | x | x |
| 1 | 1 | 1 | 1 | x | x | x | x | x | x | x | x | x |

CIRCUITO LÓGICO E DECODIFICADOR:



QUESTÃO 2:

LINK PARA A IMPLEMENTAÇÃO DO DISPLAY:

<https://www.tinkercad.com/things/6vzPVjJ0NtE-controle-de-agua-de-boqueirao>

| TABELA VERDADE | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---------|
| A | B | a | b | c | d | e | f | g | display |
| 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | b |
| 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | n |
| 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | A |
| 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | d |

