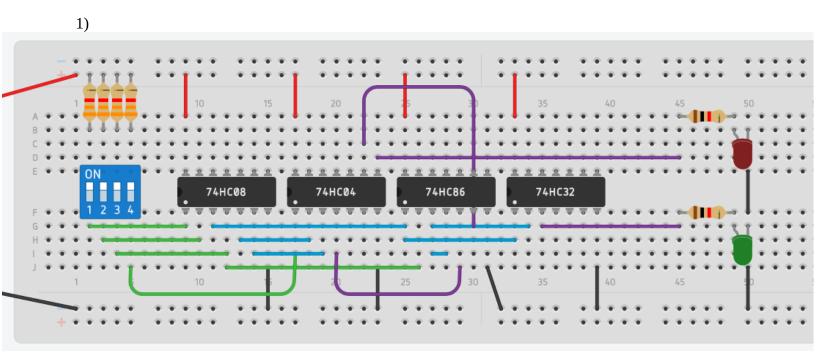


## UNIVERSIDADE FEDERAL DO RIO GRANDE DO NORTE

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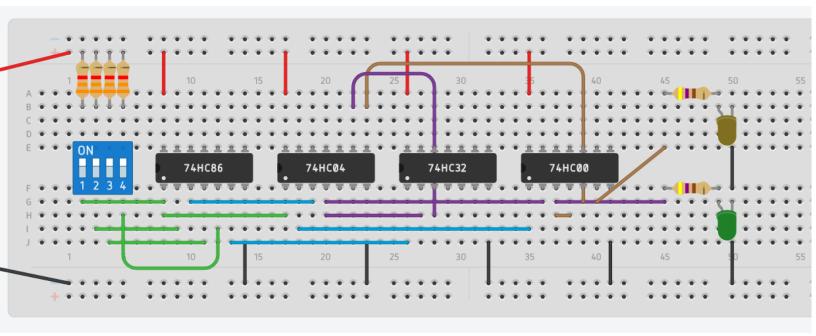


$$S1 = (A \cdot B) + ((A \cdot B) \oplus C)$$
  
$$S2 = (((A \cdot B) \oplus C) \oplus (C \cdot D')')'$$

A	В	С	D	S1	S2
0	0	0	0	0	0
0	0	0	1	0	0
0	0	1	0	1	0
0	0	1	1	1	1
0	1	0	0	0	0
0	1	0	1	0	0
0	1	1	0	1	0
0	1	1	1	1	1
1	0	0	0	0	0
1	0	0	1	0	0

1	0	1	0	1	0
1	0	1	1	1	1
1	1	0	0	1	1
1	1	0	1	1	1
1	1	1	0	1	1
1	1	1	1	1	0

2)



S1 = 
$$(A' \cdot (A \oplus B)')'$$
  
S2 =  $((A' \cdot (A \oplus B)')' \cdot ((A \oplus B)' + (C \oplus D))')'$ 

A	В	С	D	S1	S2
0	0	0	0	0	1
0	0	0	1	0	1
0	0	1	0	0	1
0	0	1	1	0	1
0	1	0	0	1	0
0	1	0	1	1	1
0	1	1	0	1	1
0	1	1	1	1	0
1	0	0	0	1	0

1	0	0	1	1	1
1	0	1	0	1	1
1	0	1	1	1	0
1	1	0	0	1	1
1	1	0	1	1	1
1	1	1	0	1	1
1	1	1	1	1	1