

Truth Table

S	A	B	Z
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

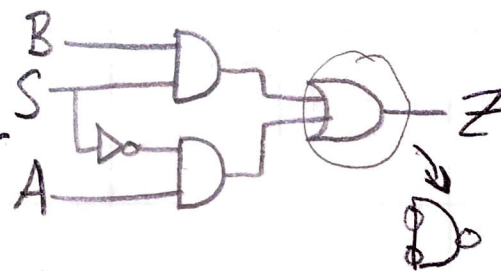
S	Z
0	A
1	B

KMAP

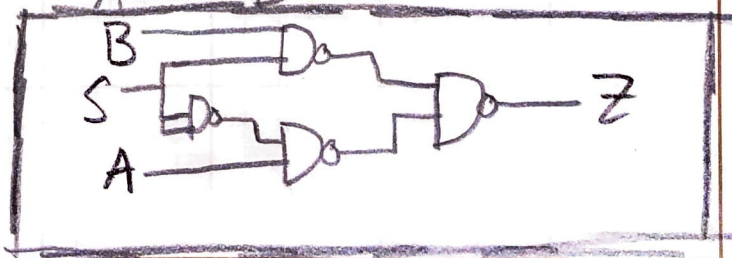
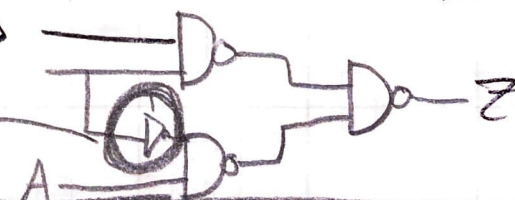
AB \ S	00	01	10	11
0	0	0	1	1
1	0	1	0	1

$$Z = A\bar{S} + \bar{A}B + S\bar{A}B$$

$$Z = A\bar{S} + BS$$



Same input as in both sides of NAND



Prelab

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