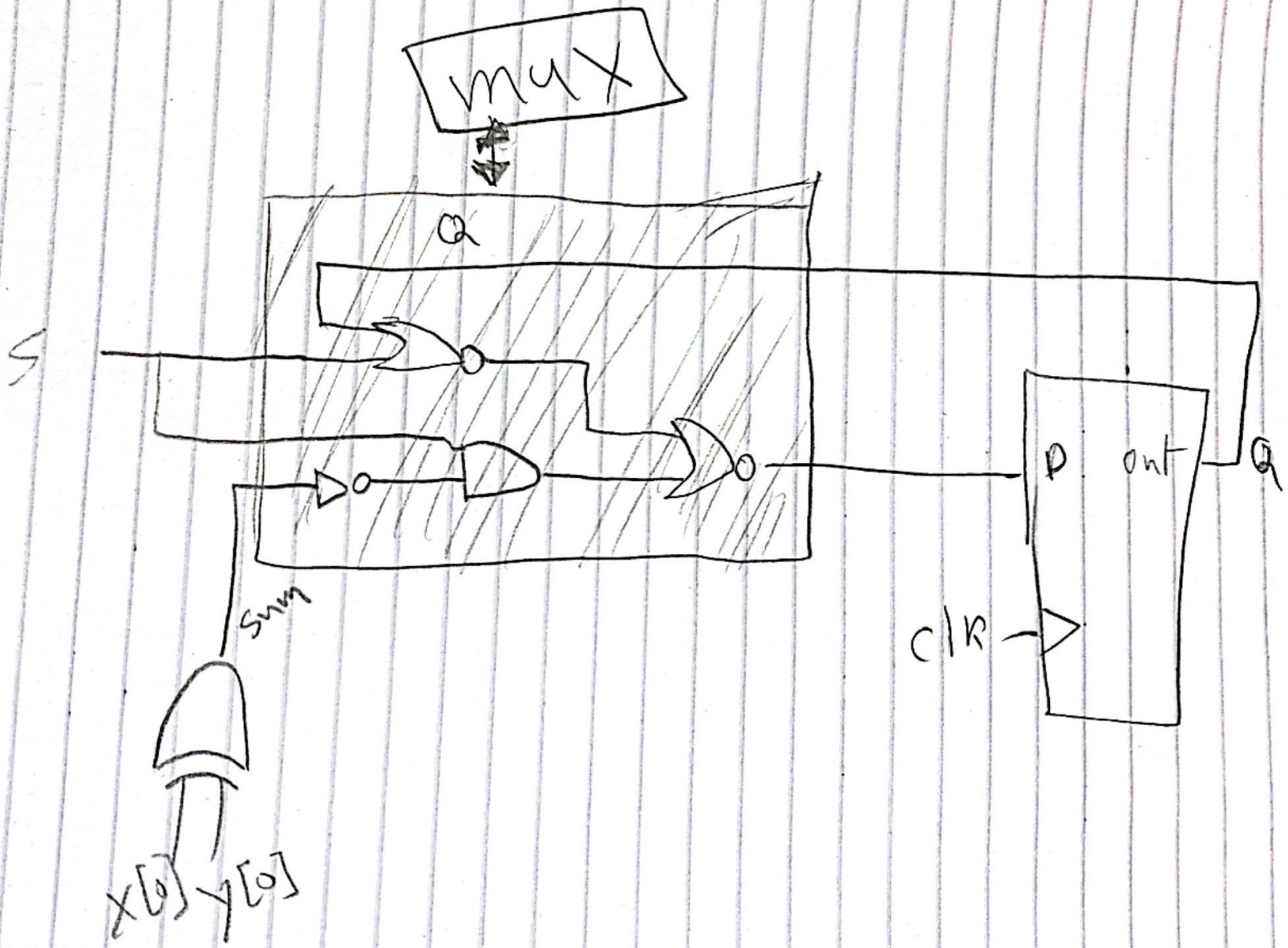

$$y = S + \overline{(\overline{sum}\,(\overline{out + s}))}$$

$$y = \bar{S} \cdot \overline{\overline{sum}\,(\overline{out + s})}$$

$$y = \bar{S} \cdot (\overline{\overline{sum} + (out + s)})$$

$$y = \bar{S}\,\overline{\overline{sum}} + \bar{S}\,out + 0$$

$$\boxed{y = \bar{S}\,\overline{\overline{sum}} + S\,out}$$

$$\boxed{y = \bar{S}\,sum + S\,out}$$

sum	out	s	y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1