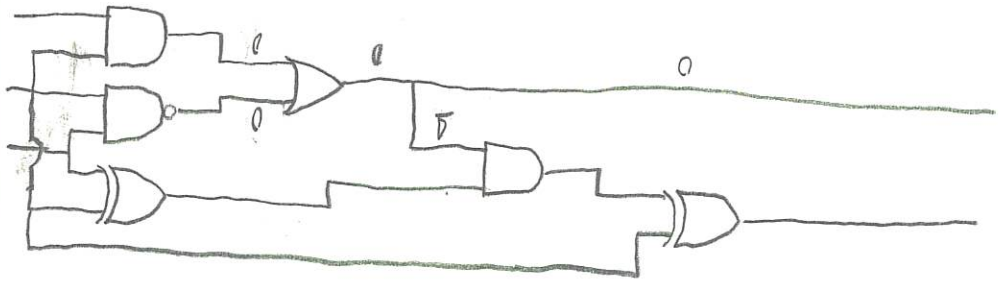
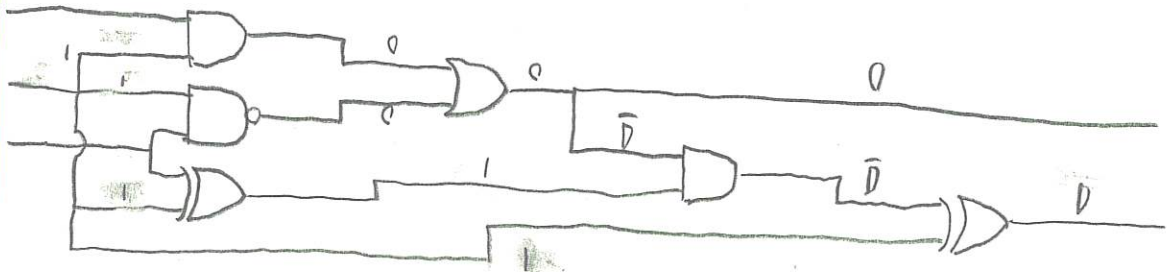
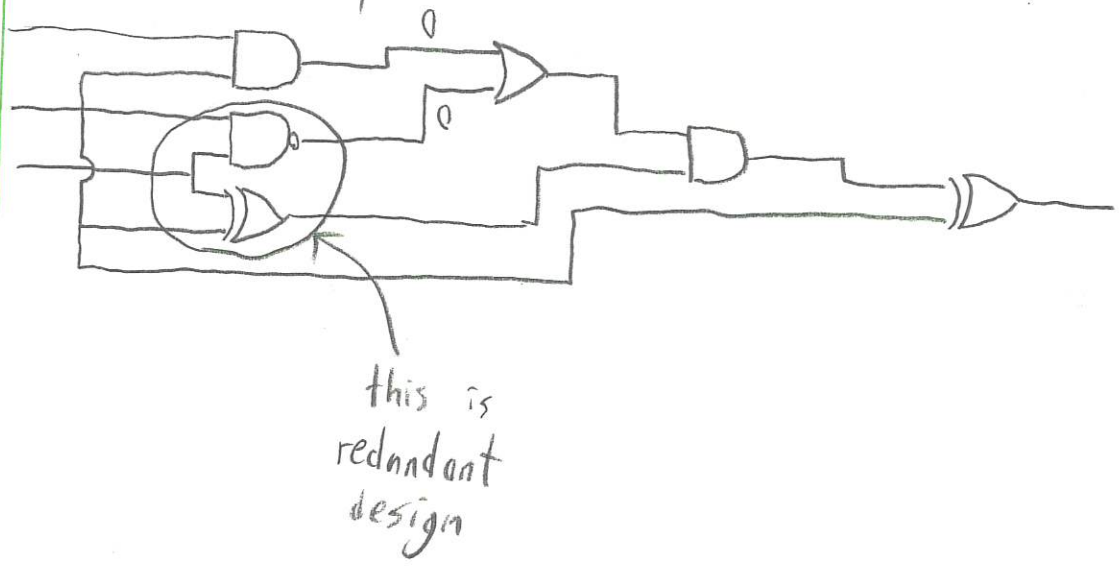
Step 1: Primary D-cube of failure



Step 2: Propagate

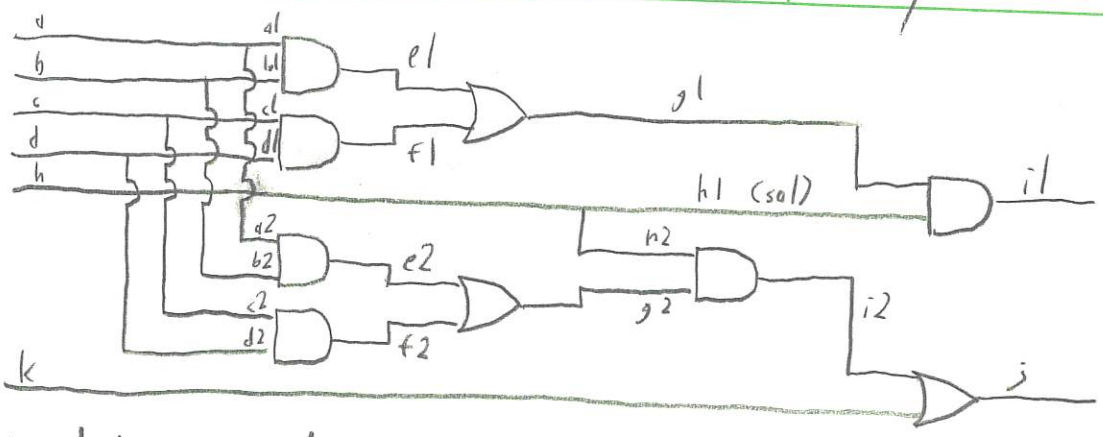


Step 3: Justify



Fault is benign.

2



Step	Action	Nodes set
1	PDF	$h1 = \bar{D}$, $h = 0$, $h2 = 0$
2	Propagate	$i1 = \bar{D}$, $g1 = 1$
3	Justify	either $a = b = 1$ and/or $c = d = 1$
		either way, $g2 = 1$ and $i2 = 0$

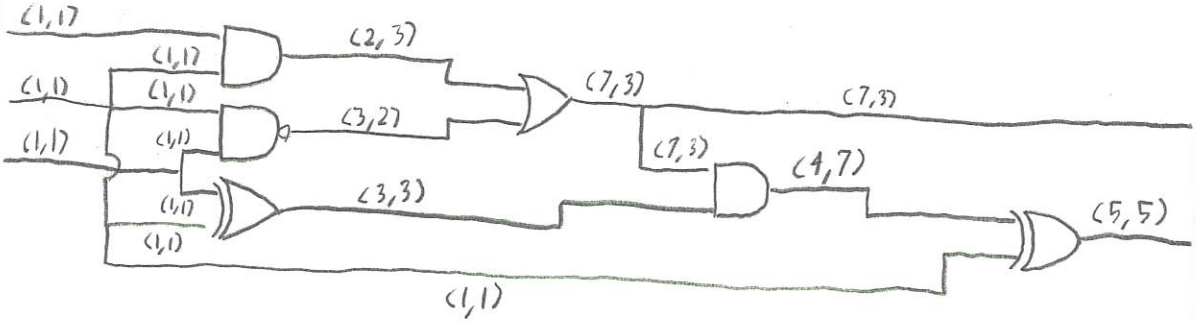
Test vectors are

[1 1 X X 0 X]

and

[X X 1 1 0 X]

3 Controllabilities:

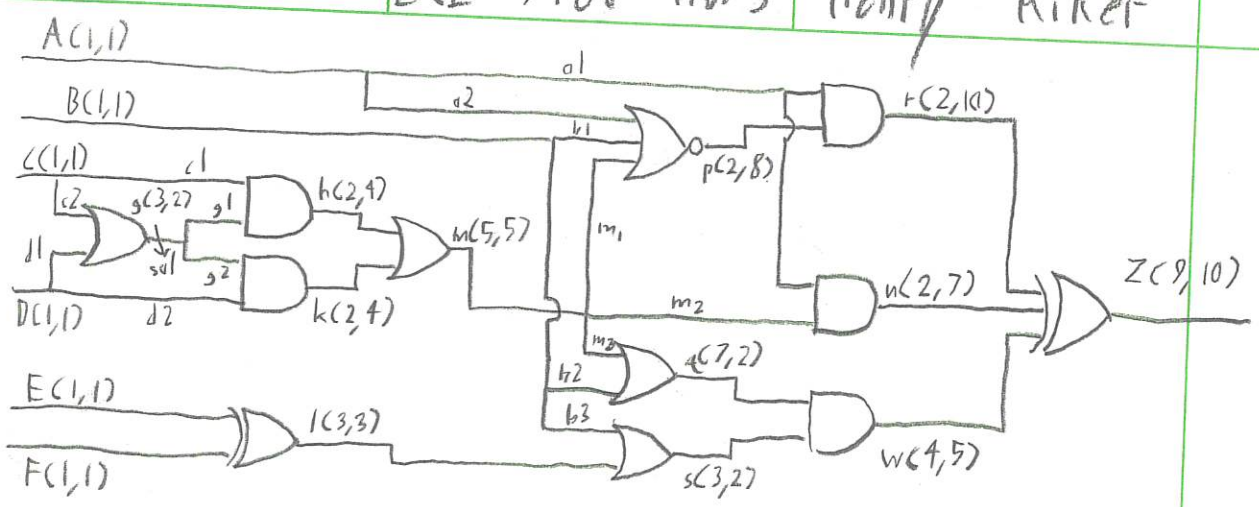


Step	Action	Nodes set
1	PDF	$h=\bar{D}$, $g=0$, $Y=0$, $d=0$, $e=0$
2	Propagate	$f=1$, $k=\bar{D}$, $Z=?$

At this point, we run into the same problem as part 1. Nodes B_4 and Z both have the same CC0 as their CC1, we don't know whether to set B_4 to 1 and Z to D or B_4 to 0 and Z to $\bar{D}$.

Regardless, neither trace works, as the fault is benign.

4



Step	Action	Nodes set
1	PPF	$c2=0$, $d1=0$, $g=\bar{D}$, $C=0$, $D=0$, $g1=\bar{D}$, $g2=\bar{D}$
2	Propagate	nh ah

Fault is benign due to redundant design at nodes C, D, g, h, k, and m