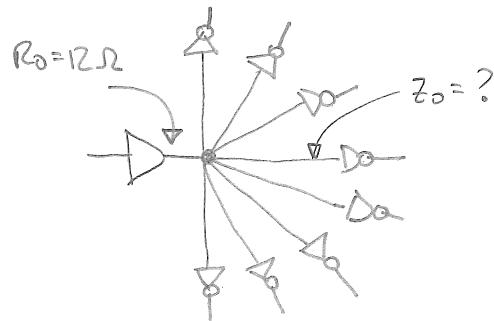


6. The star network looks like this:



To launch  $\frac{V_{DD}}{2}$  incident wave which will result in incident wave switching at each receiver, the impedance of all the lines in parallel must be equal to  $R_0$  of the driver. So.

$$\frac{z_0}{8} = 12 \text{ or } z_0 = 96\Omega \text{ for each line}$$