Stephanie Benitez Cabrera A00820320

DAC

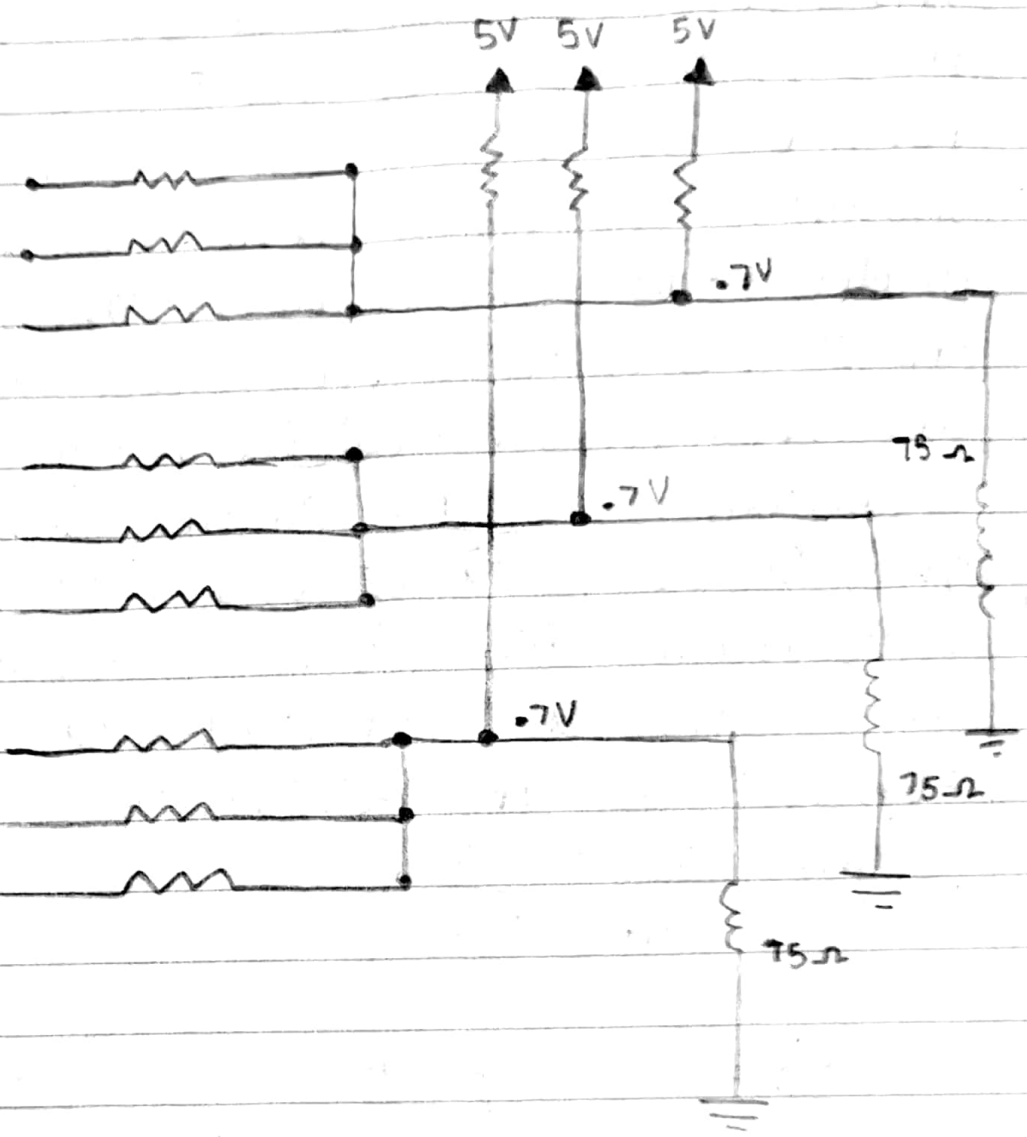
$$.7V = 5V\left(\frac{75}{R+75}\right)$$

$$R = \frac{5(75)}{.7} = 75$$

$$R = 460.7\,\Omega$$

$$R_{001} = \frac{5(75)}{.1} .75$$

$$= 550\,\Omega$$



000 → 0 Ω

001 → 3675 Ω

010 → 1800 Ω

011 → 1175 Ω

100 → 862.5 Ω

101 → 675 Ω

110 → 550 Ω

111 → 460.7 Ω

R_{010} $\frac{5(75)}{.2} - 75 = 1800\,\Omega$

R_{011} $\frac{5(75)}{.3} - 75 = 1175\,\Omega$

R_{100} $\frac{5(75)}{.4} - 75 = 862.5\,\Omega$

R_{101} $\frac{5(75)}{.5} - 75 = 675\,\Omega$

$R_{110} = \frac{5(75)}{.6} - 75 = 550\,\Omega$