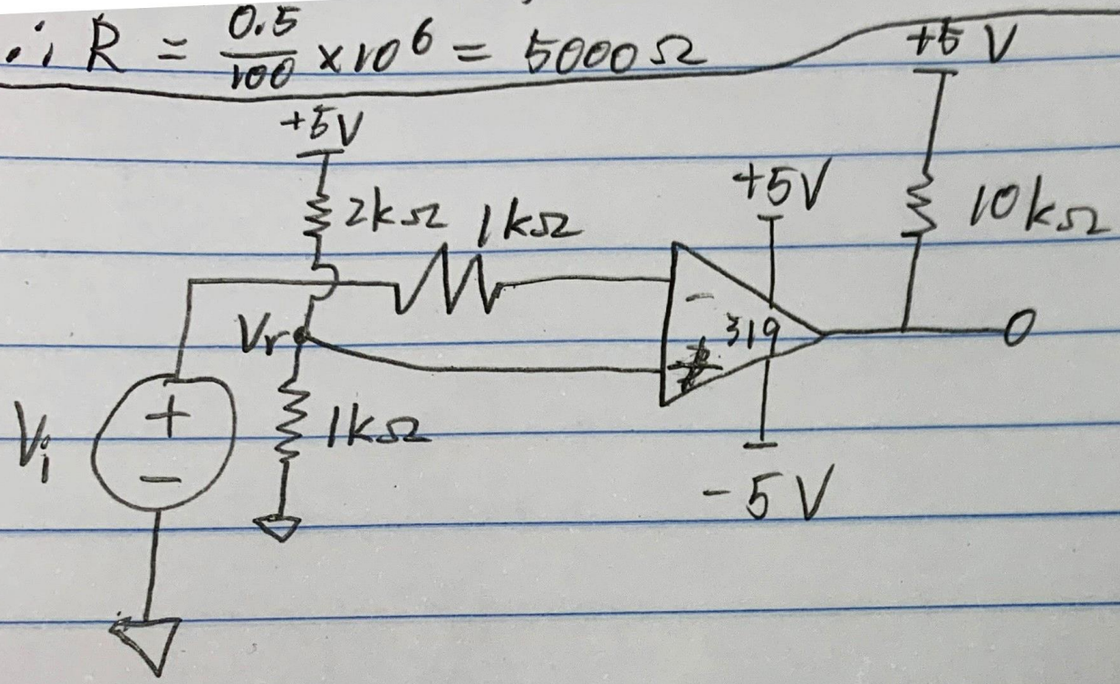
$\therefore R = \frac{0.5}{100} \times 10^6 = 5000\,\Omega$



By voltage divide

$$V_r = \frac{5 \times 1k\Omega}{2k\Omega + 1k\Omega} = 1.66\,V$$

If V_i drop below V_r, output of comparator change from high to low

So threshold input volt $V_i = V_r = 1.66\,V$