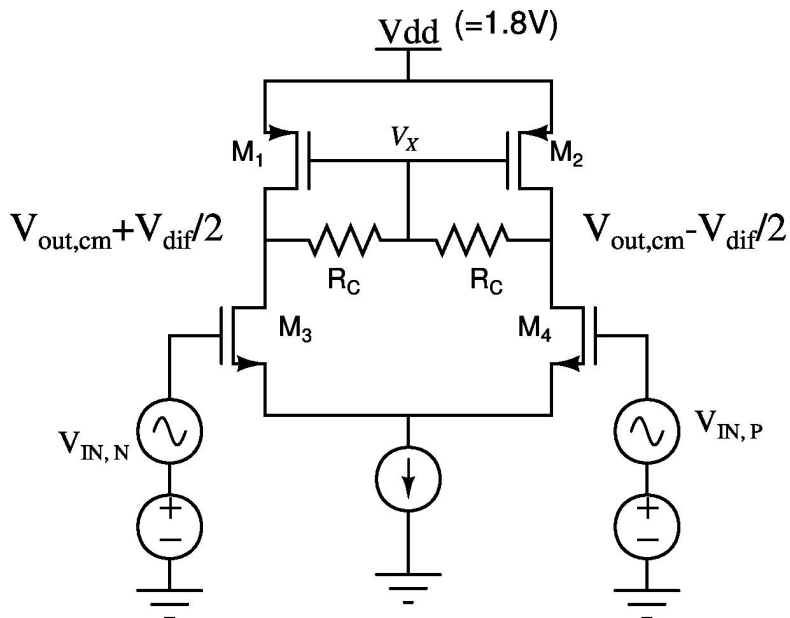## Common Mode Sensing Using R_c

The R_c 's form a voltage divider:

$$V_x = \frac{(V_{out,cm} + V_{dif}/2) + (V_{out,cm} - V_{dif}/2)}{2} = V_{out,cm}$$

- **V_X decides the V_{out} common mode**
- **For AC analyses of the circuit, V_X acts as a virtual ground**