## Example Problem

What does |B| look like for r > b?

LHS: 
$$\oint \vec{B} \bullet d\vec{\ell} = \oint B d\ell = B \oint d\ell = B \cdot 2\pi r$$

RHS:  $I_{enclosed} = I$ 

$$\longrightarrow B = \frac{\mu_o I}{2\pi r}$$





