

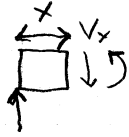
$$\widehat{A} \uparrow: F \cdot c + F \cdot (L-c) - R_B \cdot L = 0$$

$$\cancel{F \cdot c} + F \cdot L - \cancel{F \cdot c} - R_B \cdot L = 0$$

$$R_B \cdot L = F \cdot L$$

$$R_B = F$$

$R_A = F$, av symmetrih al.



$$R_A = F$$

$$\text{I} \uparrow: F - V_x = 0 \Rightarrow V_x = F, \text{ d  } 0 < x < c$$

$$\widehat{\text{I}} \curvearrowright: F \cdot x - M_{bx} = 0 \Rightarrow M_{bx} = F \cdot x, \text{ d  } 0 < x < c$$

$$\text{II} \uparrow: F - F - V_x = 0 \Rightarrow V_x = 0, \text{ d  } c < x < L-c$$

$$\widehat{\text{II}} \curvearrowright: F \cdot x - F \cdot (x-c) - M_{bx} = 0 \Rightarrow \cancel{F \cdot x} - \cancel{F \cdot x} + F \cdot c - M_{bx} = 0 \Rightarrow M_{bx} = F \cdot c, \text{ d  } c < x < L-c$$

$$\text{III} \uparrow: F - F - F - V_x = 0 \Rightarrow V_x = -F, \text{ d  } L-c < x < L$$

$$\widehat{\text{III}} \curvearrowright: F \cdot x - F \cdot (x-c) - F \cdot (c - (L-x)) - M_{bx} = 0 \Rightarrow$$

$$\cancel{F \cdot x} - \cancel{F \cdot x} + \cancel{F \cdot c} - \cancel{F \cdot c} + F \cdot L - F \cdot x - M_{bx} = 0 \Rightarrow$$

$$M_{bx} = F \cdot L - F \cdot x = F \cdot (L-x), \text{ d  } L-c < x < L$$

Slutsats: $M_{bmax} = F \cdot c$ (Studera max-v rde f r M_{bx} i snitt I, II och III.)