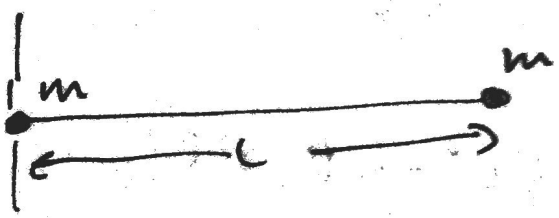
ROTATIONAL INERTIA

a) $I_{com} = \sum m_i r_i^2$

$= m\left(\frac{L}{2}\right)^2 + m\left(\frac{L}{2}\right)^2$

$= \frac{1}{2} m L^2$

I=m1*r1^2 + m2*r2^2



b) $I = \sum m_i r_i^2$

$= m(0)^2 + m(L)^2$

$= mL^2$.