



$\text{angle}[0] = \text{base}$

$\text{angle}[1] = \text{shoulder} = \text{angP} + B$

$\text{angle}[2] = C + \text{angP} + B - \pi = -\text{elbow}$

$L3 = L3a + L3b$  (offset to finger tip from wrist +  
offset to from sholder to base axis)

$L2 = \text{elbow to wrist}$

$L1 = \text{sholder to elbow}$