

Keep Shifting b/n Left/Front and Right/Back

$$[1, 2, 3, 4, 5, 6, 1] \quad k = 3$$

① Initially Lets pick all element from the front

$$k=3 \quad \text{Leftsum} \quad \text{Rightsum} \quad T_s$$
$$1+2+3 \quad 0 \quad \underline{6}$$

$$[\boxed{1 \ 2 \ 3} \ 4 \ 5 \ 6 \ 1]$$

L_s

$$\textcircled{2} \quad L_{\text{sum}} \quad R_{\text{sum}} \quad T_s$$

$$[\boxed{1 \ 2} \ 3 \ 4 \ 5 \ 6 \ \boxed{1}]$$

$L_s \quad R_s$

$$1+2 \quad 1 \quad \underline{4}$$

$$\textcircled{3} \quad L_{\text{sum}} \quad R_{\text{sum}} \quad T_s$$

$$[\boxed{1} \ 2 \ 3 \ 4 \ 5 \ \boxed{6 \ 1}]$$

$$1 \quad 6+1 \quad \underline{8}$$

$$\textcircled{4} \quad L_{\text{sum}} \quad R_{\text{sum}} \quad T_s$$

$$[1 \ 2 \ 3 \ 4 \ \boxed{5 \ 6 \ 1}]$$

$$0 \quad 5+6+1 \quad \underline{12}$$

so the Max Sum = 12,

This is when all the elements are picked from the Back.