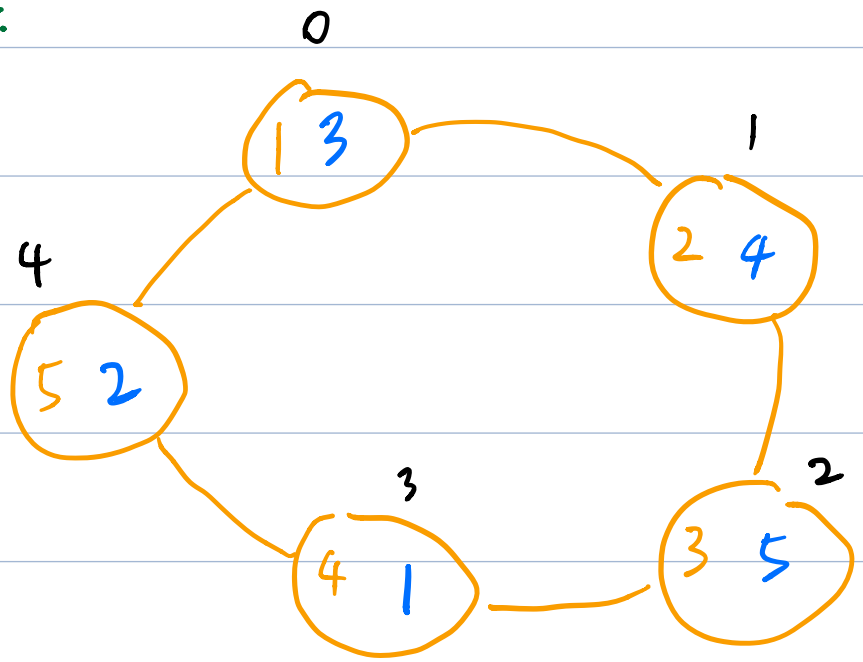
Method 1:



total = 0, start = -1.

i = 0 :

sum = 0 + 1 - 3 = -2 ⇒ start = 0, sum = 0

total = 0 + 1 - 3 = -2

i = 1 :

sum = 0 + 2 - 4 = -2 ⇒ start = 1, sum = 0

total = -2 - 2 = -4

i = 2 :

sum = 0 + 3 - 5 = -2 ⇒ start = 2, sum = 0

total = -4 -2 = -6

i=3:

Sum = 0 + 4 - 1 = 3

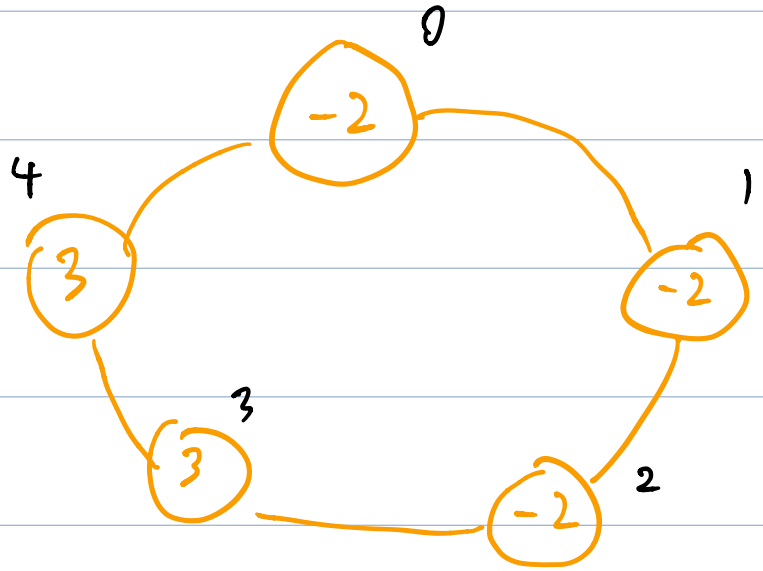
total = -6+3 = -3

i=4:

Sum = 3 + 5 - 2 = 6

total = -3 + 5 - 2 = 0 ≥ 0 ⇒ return 2+1 = 3

Method 2:



total = $-2-2-2+3+3=0$

max_so_far, cur_max = -2

min_so_far, cur_min = -2

max_id, Max_id, min_id = 0

$i=1$:

cur_max <0 $\Rightarrow$ cur_max = -2, max_id = 1

cur_min <0 $\Rightarrow$ cur_min = $-2-2=-4$

cur_min $<$ min_so_far $\Rightarrow$ min_so_far = -4, min_id = 1

$i=2$:

cur_max <0 $\Rightarrow$ cur_max = -2, max_id = 2

cur_min <0 $\Rightarrow$ cur_min = $-4-2=-6$

cur_min $<$ min_so_far $\Rightarrow$ min_so_far = -6, min_id = 2

$i=3$:

cur_max <0 $\Rightarrow$ cur_max = 3

max_id = 3

cur_max > max_so_far ⇒ max_so_far = 3

MAX_id = 3

cur_min = −6 + 3 = −3

i = 4 :

cur_max = 3 + 3 = 6

cur_max > max_so_far ⇒ max_so_far = 6

MAX_id = 3

cur_min = −3 + 3 = 0

6 > 0 − 0 ⇒ result_id = 3