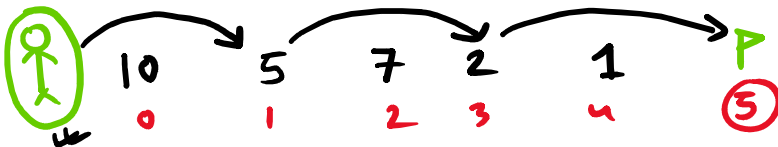
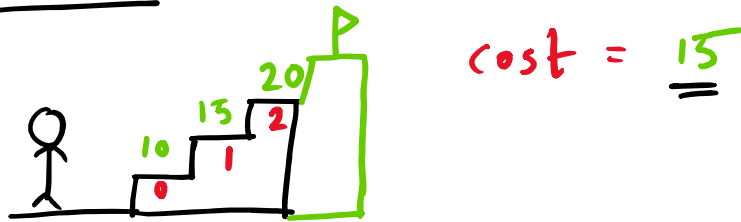


Staircase



$$5 + 2 + 0 = 7$$

Defination

$$f(\text{step}) = \text{min cost to reach last index from } \text{step} + \text{including cost of step}$$

(0-5)

Transition

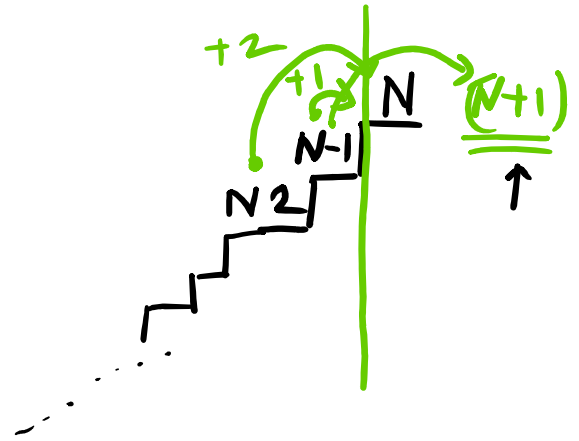
$$f(i) = \text{cost}[i] + \min \begin{cases} f(i+1) \\ f(i+2) \end{cases}$$

cost[i+1]

cost[i+2]

Base Case

$$\boxed{i \geq N} \quad f(i) = 0$$



① $1 - x \rightarrow 1, 2, 3, 4, \dots, x$

② $[1, 5, 10] \rightarrow$

↑

⊗

Kadane's Algorithm

$O(N^3)$

1	-2	5	-3	7	-10
0	1	2	3	4	5

← sum →

↑
0

↑
L

↑
R

↑
n-1

M.S.S = 49

result =

for ($L = 1 - N$) { $\rightarrow L = 1, 2, 3, \dots, N-1$

for ($R = L - N$) { $R = L, L+1, L+2, \dots, N-1$

for ($i \rightarrow L - R$) {

sum += nums[i]

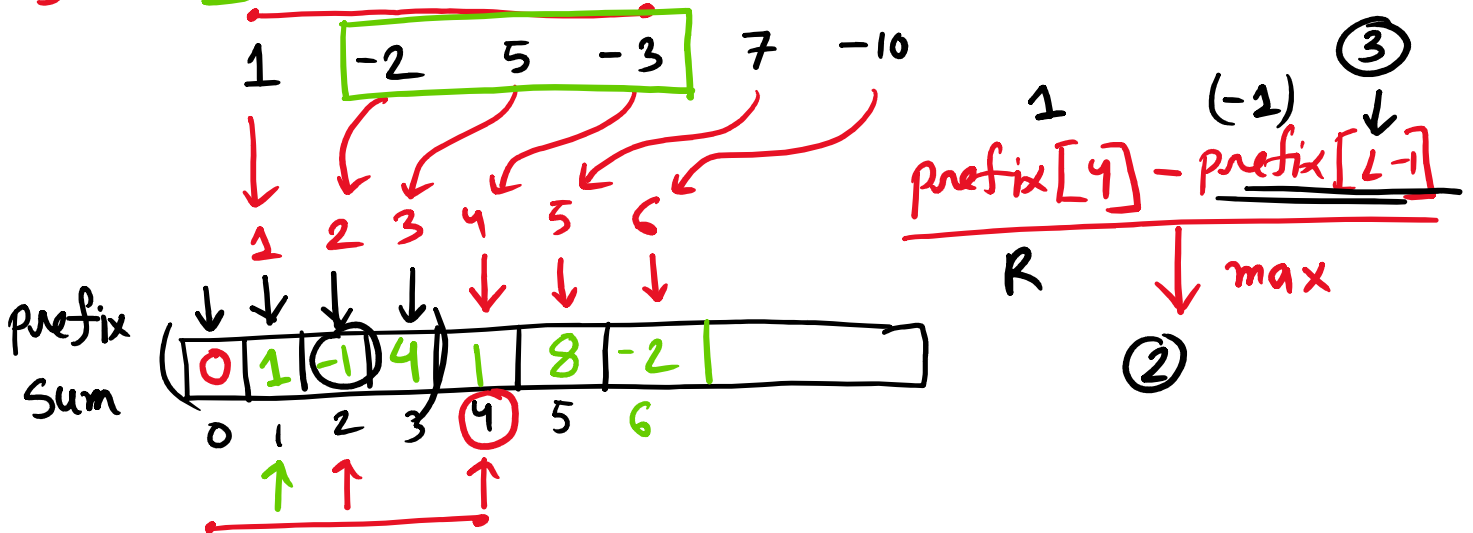
}

result = max(result, sum)

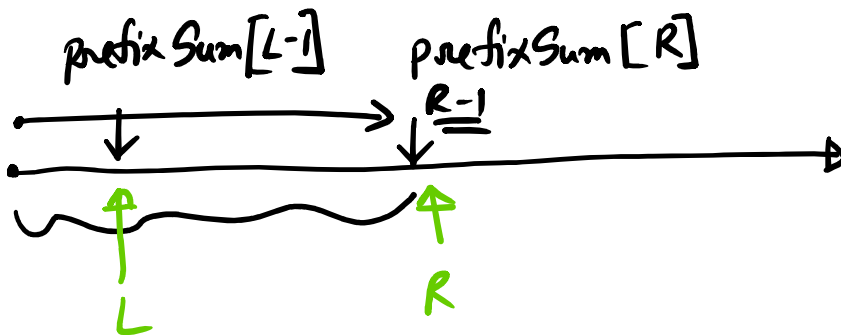
result = max(result, sum)

}
}
return result

sum = -2



prefix[4] - prefix[1]



$$\text{prefix}[R] - \boxed{\text{prefix}[L-1]} = \boxed{\text{MAX}}$$

↑
min