

Climbing stairs



Idea 1

- Observation
 - $F(1) = 1, F(2) = 2, f(3) = 3, f(4) = 5, F(5) = 8 \dots\dots$

Idea 2

- Permutations or Combinations
 - Impossible to deal with $O(\log n)$

Idea 3

- Observation on relation
 - $F(n) = F(n-1) + F(n-2)$

Minimum size subarray sum

Idea 1

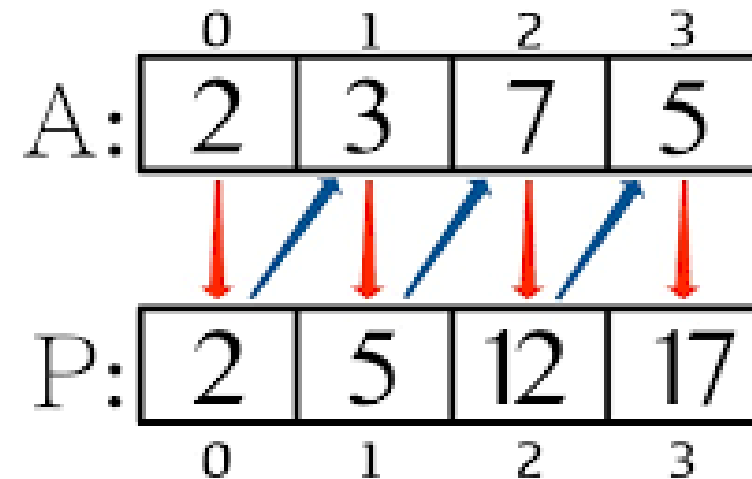
- Try all combination
 - Time complexity : $O(n^3)$

Idea 2

- Prefix sum
 - Time complexity : $O(n^2)$

Prefix Sum
P of A

→ Store
→ Sum

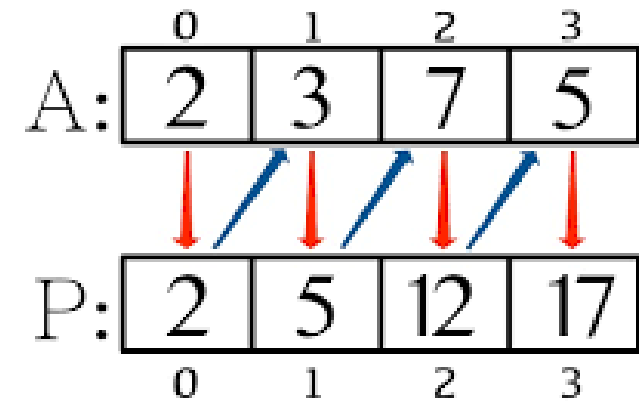


Idea 3

- Binary search
 - Recap :
 - Time complexity : $O(n \log n)$

Prefix Sum
P of A

→ Store
→ Sum



Idea 4

- Sliding window
 - given the array [2,3,1,2,4,3]
 - and $s = 7$.
 - Time complexity : $O(n)$

2	3	1	2	4	3
[2	3	1	2]		
	[3	1	2	4]	
		[1	2	4]	
			[2	4	3]
				[4	3]