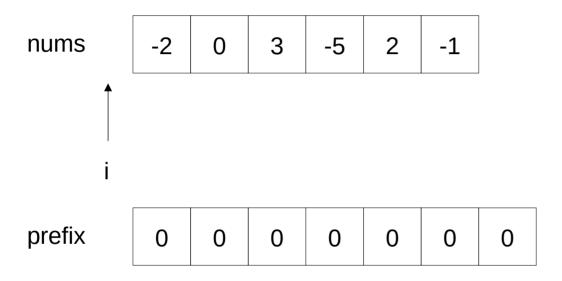
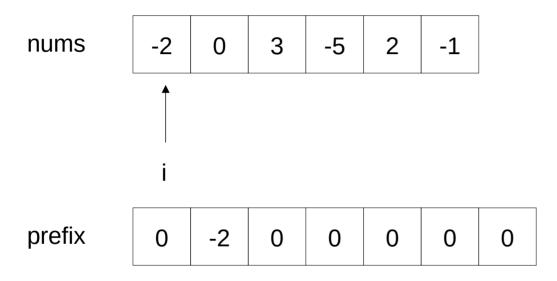
LeetCode #303

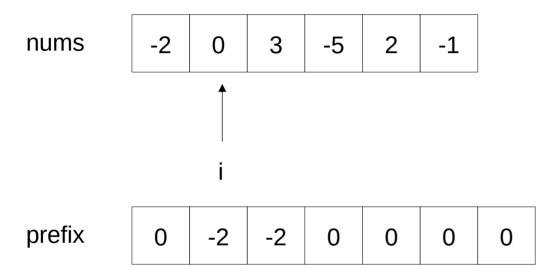
Range Sum Query - Immutable



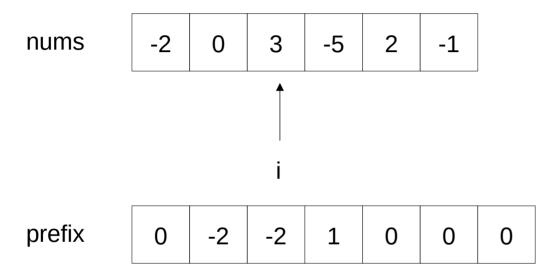
Creates a prefix array of size n + 1 initialized with zeros, where n is the size of nums



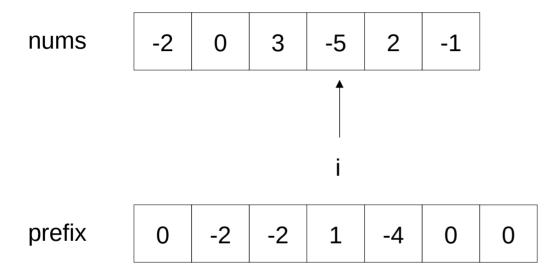
$$Prefix[i + 1] = nums[i] + prefix[i] = -2$$



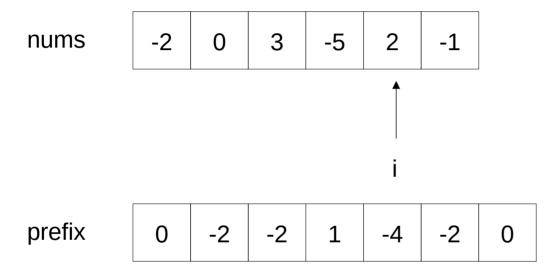
$$Prefix[i + 1] = nums[i] + prefix[i] = -2$$



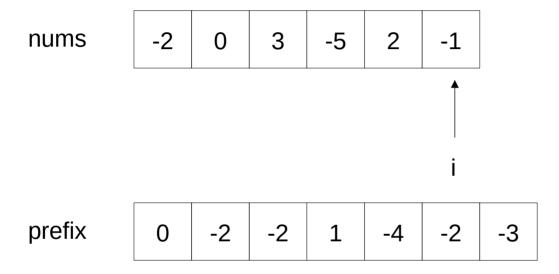
$$Prefix[i + 1] = nums[i] + prefix[i] = 1$$



$$Prefix[i + 1] = nums[i] + prefix[i] = -4$$



$$Prefix[i + 1] = nums[i] + prefix[i] = -2$$



$$Prefix[i + 1] = nums[i] + prefix[i] = -2$$

nums

0 1 2 3 4 5 6

prefix 0 -2 -2 1 -4 -2 -3

query(0, 2) = prefix[r + 1] - prefix[l] = 1 - 0 = 1query(2, 5) = prefix[r + 1] - prefix[l] = -3 - -2 = -1query(0, 5) = prefix[r + 1] - prefix[l] = -3 - 0 = -3