

Line Sweep Algorithm.

0	1	2	3	4	5	6	7
0	0	7	15	15	8	8	0
		+7	+8		-7		-8

$(2,4) \rightarrow 7$ (Increment by 7)
 $(3,6) \rightarrow 8$ (Increment by 8)

$a[l] += 7$
 $a[r+1] -= 7$

Make an extra array and then in then
 end take prefix sum.

Each change will take only $O(1)$ time instead of
 $O(n)$ for each operation.

Suppose there are t operations.

$$t \cdot O(n) \rightarrow t \cdot O(1)$$