In put: [100, 4, 200, 1, 3, 2]. Output: 4

Merge ( map, 3, 4)

$$|ower = 3 - 1 + 1 = 3$$

$$|ength = 4 - 3 + 1 = 2$$

$$l = max(1, 2) = 2$$

Merge (Map, 1, 2)

$$|ower = |-|+| = |$$

length = 
$$2-1+1=2$$

$$l = Max(2, 2) = 2$$

## merge(map, 2,3)

wpper = 
$$3+2-1=4$$

$$map[4] = 4$$

$\ell = Max(2,4) = 4$				