

nums1					
0	1	2	3	4	5
1	2	3	0	0	6
		↑		↑	
		i		k	

nums2		
0	1	2
2	5	6
		↑
		j

$3 \not\geq 5 \therefore \text{nums1}[k] = 5$

nums1					
0	1	2	3	4	5
1	2	3	0	5	6