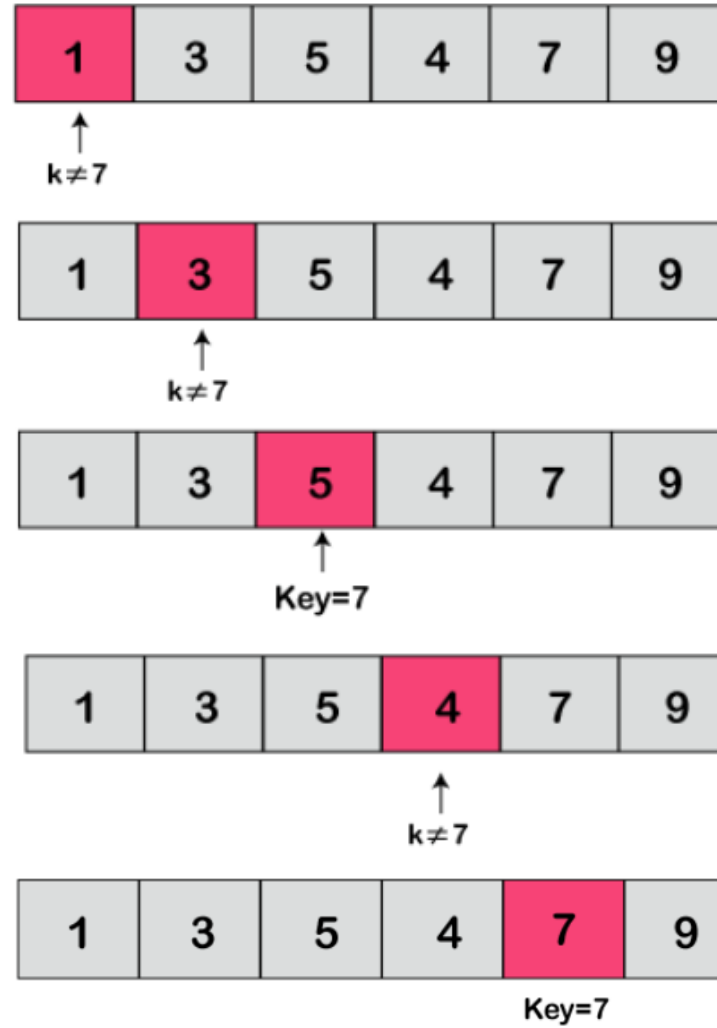Dr. Gunjan Mansingh
Department of Computing
UWI
July 4- 29, 2022
Week 2 - Day 3, Session 1

Linear Search

Search for 7 in the given list

Binary Search

Search for 7 in the given list

Index: 0 1 2 3 4 5 6 7 8 9

-5	-2	0	1	2	4	5	6	7	10
low				middle					high

$7 > 2$ (i.e. target > nums[middle])
Update *low*

-5	-2	0	1	2	4	5	6	7	10
					low	middle	high		

$7 > 6$ (i.e. target > nums[middle])
Update *low*

-5	-2	0	1	2	4	5	6	7	10
								low high middle	

$7 = 7$ (i.e. target = nums[middle])
Return *middle*

3