Insertion Sort 23 April 2023 16:29		If j is at valid index and key is smaller than element at j , 1)Then shift element at j to j+1 2) Decrement j									
Key 44			[0] 55 j			[2] [3] 22 66			[5] 33	44 < 55, follow the 2 steps as above Shift j to j+1 j	
Key 44		j	[0] 44	[1] 55			[3] 66	[4] 11	[5] 33	J is not at valid index, Copy key to j+1	
		,									
Key 22			[0] 44	[1] 55	[2]		3]	[4] 11	[5] 33	22 < 55, shift j to j+1 J	
				j	i						
Key 22			[0] 44 j	[1] 55	[2] 55 i		3]	[4] 11	[5] 33	22 < 44 , shift j to j+1 and j	
Key 22			[0] 22	[1] 44	[2] 55		3]	[4] 11	[5] 33	J is not at valid index, copy key to j+1	
Key 66	j	[0] 22		[1]	[2] 55 j	[3] 66 i	[4		[5] 33	Key is not smaller to 55 Copy key to j+1	
Key 11	11 22 22 11 [0 22 22 22 22 22 22 22 22 22 22 22 22 22		[0] [1] 22 44		2]	[3] 66	[4] 11	[5] 33		11 < 66, shift 66 to j+1 j	
			[0] [1] 22 44			[3] 66	[4] [66 3			11 < 55, shift 55 to j+1 J	
			[0] [1] 22 44 j			[3] 55	[4] 66	[5] 33		11 < 44, shift 44 to j+1 j	
		[0]	[1] 44	[2] 44			[4] 66	[5] 33		11 < 22, shift 22 to j+1 j	
		j [1] 22		[2] 44	[3] 55	[4	i 4] 66	[5] 33		J is not a valid index, Copy key to j+1	
Key 33	[0]		[1] 22	[2] 44	[3] 55	6	4]	[5] 33		33 < 66, shift 66 to j+1 j	
	[0] 11	[1		[2] 44	[3]	[4] 66	j	[5] 66		33 < 55, shift 55 to j+1 j	
	[0] 11	[1] 22	[2	ı	j [3] 55	[4] 55	[5] 66 i			33 < 44, shift 44 to j+1 j	

	[0]	[1]	[2]	[3]	[4]	[5]	33 < 44, shift 44 to j+1 j
	11	22	44	55	55	66 i	· ·
			j			ı	
	[0]	[1]	[2]	[3]	[4]	[5]	33 is not smaller to 22 , so copy key to j+1
	11	[1] 22	44	44	55	66	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		j				i	
						f=3	
	[0] 11	[1] 22	[2] 33	[3] 44	[4] 55	[5] 66	