Temp									
1	Temp	[0]	[1]	[2]		[3]	[4]	[5]	
1		55	44	22		66	11	33	
[0] [1] [2] [3] [4] [5] [o] [1] [2] [3] [4] [5] [o] [1] [2] [3] [4] [5] As j is at invalid index copy temp to j+1 Temp [0] [1] [2] [3] [4] [5] [1] [2] [3] [4] [5] [2] [4] [5] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [5] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [4] [5] [2] [4] [L								
		j	i						Shift arr[j] to j+1
		[0]	[1]	[2	2]	[3]	[4]	[5]	
[0] [1] [2] [3] [4] [5] As j is at invalid index copy temp to j+1 Temp [0] [1] [2] [3] [4] [5] Shift 55 to j+1 [0] [1] [2] [3] [4] [5] As j is at invalid index copy temp to j+1 [0] [1] [2] [3] [4] [5] At 22 ? Yes Shift 55 to j+1 [0] [1] [2] [3] [4] [5] As j is at invalid position Copy temp to j+1 Temp [0] [1] [2] [3] [4] [5] As j is at invalid position Copy temp to j+1 Temp [0] [1] [2] [3] [4] [5] As j is at invalid position Copy temp to j+1 Temp [0] [1] [2] [3] [4] [5] As j is at invalid position Copy temp to j+1 Temp [0] [1] [2] [3] [4] [5] Shift 66 to j+1 j-1 [0] [1] [2] [3] [4] [5] Shift 66 to j+1 j-1 [0] [1] [2] [3] [4] [5] Shift 55 to j+1 [0] [1] [2] [3] [4] [5] Shift 55 to j+1 [0] [1] [2] [3] [4] [5] As j is at invalid index copy temp to j+1 [0] [1] [2] [3] [4] [5] Shift 55 to j+1 [0] [1] [2] [3] [4] Shift 55 to j+1 [0] [1] [2] [3] [4] Shift 55 to j+1 [1] [2] [3] [4] Shift 55 to j+1 [2] [3] [4] Shift 55 to j+1 [3] [4] [5] Shift 55 to j+1 [4] [4] Shift 55 to j+1 [5] [6] Shift 55 to j+1 [6] Shift 55 to j+1 [6] Shift 55			_	_					i
[0] [1] [2] [3] [4] [5] As j is at invalid index copy temp to j+1 Temp [0] [1] [2] [3] [4] [5] Shift 55 to j+1									J
Temp [0] [1] [2] [3] [4] [5] [5] [5] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	j		i						
Temp [0] [1] [2] [3] [4] [5] [5] [5] [5] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7		[0]	[4]		\1	[2]	[A]	[e]	
Temp [0] [1] [2] [3] [4] [5] j i									
22		44	55	2	2	66	11	33	copy temp to j+1
Temp 22 44 55 22 66 11 33 55 > 22 ? Yes Shift 55 to j+1									
22									1
22	Temp	[0]	[1]	[2	2]	[3]	[4]	[5]	F
[0] [1] [2] [3] [4] [5] 44 > 22 ? Yes Shift 44 to j+1 j		44	55	2	2	66	11	33	
[0] [1] [2] [3] [4] [5] 44									Snift 55 to J+1
44			J						
44									
Temp 22 44 55 66 11 33 33 34 34 35 36 34 35 36 37 36 37 37 37 37 37		[0]	[1]		[2]	[3]	[4]	[5]	
[0] [1] [2] [3] [4] [5] As j is at invalid position Copy temp to j+1		44			55	66	11	33	
[0] [1] [2] [3] [4] [5] As j is at invalid position Copy temp to j+1 Temp [0] [1] [2] [3] [4] [5] Arr[j] > temp [66] Temp [22] 44 55 66 11 33 Arr[j] > temp [67] > temp [68] Arr[j] >									Shift 44 to j+1
A4 55 66 11 33 position Copy temp to j+1		j			İ				
44 55 66 11 33 position Copy temp to j+1		[0]	1 1	11	[2]	[3]	[4]	[5]	A a i i a a b i a a a li al
Copy temp to j+1		[-]							
Temp 66 [0]	i			•					
Temp 66 22 44 55 66 11 33 Arr[j] > temp	J				ı				copy temp to j. 1
Temp 66		[0]	[1]	[2	2]	[3]	[4]	[5]	
Temp 22 44 55 66 11 33 33 66 > 11 ? Yes 55 11 55 11 55 56 11 55 56 11 55 56 11 55 56 56		22	44	5	5	66		33	Arrlil > temn
Temp 22 44 55 66 11 33 66 > 11 ? Yes Shift 66 to j+1 j [0] [1] [2] [3] [4] [5] 55 > 11 yes Shift 55 to j+1 j [0] [1] [2] [3] [4] [5] 22 44 55 66 33 55 > 11 yes Shift 55 to j+1 j	66	L	1					1	, (II) . ce.iib
Temp 11 22 44 55 66 11 33 66 > 11 ? Yes Shift 66 to j+1 j [0]				J					
Temp 11 22 44 55 66 11 33 66 > 11 ? Yes Shift 66 to j+1 j [0]			. -	- 2	r-•				
11	Tanan					_			66 × 11 2 Vaa
[0] [1] [2] [3] [4] [5] 22 44 55 66 33 55 > 11 yes Shift 55 to j+1 j [0] [1] [2] [3] [4] [5] 22 44 55 66 33 44 > 11 ? Yes		22		4	55	66	11	33	
[0] [1] [2] [3] [4] [5] 22 44 55 66 33 55 > 11 yes Shift 55 to j+1 j [0] [1] [2] [3] [4] [5] 22 44 55 66 33 44 > 11 ? Yes	11					j	i		
22 44 55 66 33 55 > 11 yes Shift 55 to j+1 j [0] [1] [2] [3] [4] [5] 22 44 55 66 33 44 > 11 ? Yes									J
22 44 55 66 33 55 > 11 yes Shift 55 to j+1 j [0] [1] [2] [3] [4] [5] 22 44 55 66 33 44 > 11 ? Yes									
[0] [1] [2] [3] [4] [5] 22 44 55 66 33 44 > 11 ? Yes		[0]] [1]	[2]	[3]	[4]	[5]	
[0] [1] [2] [3] [4] [5] 22 44 55 66 33 44 > 11 ? Yes		22	. 4	4	55		66	33	
[0] [1] [2] [3] [4] [5] 22 44 55 66 33 44 > 11 ? Yes			'		j	,	i	'	
22 44 55 66 33 44 > 11 ? Yes					•				J
22 44 55 66 33 44 > 11 ? Yes									
22 44 55 66 33 44 > 11 ? Yes			0]	[1]	[2]	[3] [4] [5]	
117 11 . 163					,				
			_						Shift 44 to i+1

1	I	ĮUJ	[1]	[2]	[3]	[4]	[5]	
		22	44	,	55	66	33	44 > 44 2 > -
			77			- 00	33	44 > 11 ? Yes Shift 44 to j+1
			j			i		j
								J
		[0]	[1]	[2]	[3]	[4]	[5]	22 > 44 2 V = =
		22		44	55	66	33	22 > 11 ? Yes Shift 22 to j+1
		j				i		j
								J
		[0]	[1]	[2]	[3]	[4]	[5]	
		11	22	44	55	66	33	Copy temp to
	L					i		j+1
	j					Į		
	Temp	[0]	[1]	[2]	[3]	[4]	[5]	
	33	11	22	44	55	66	33	66 > 33 ? Yes
						j	i	Shift 66 to j+1
						,	•	j
		[0]	[1]	[2]	[3]	[4]	[5]	
		11	22	44	55		66	55 > 33 ? Yes
					j		i	Shift 55 to j+1
					,			j
		[0]	[1]	[2]	[3]	[4]	[5]	
		11	22	44	[2]	55	66	44 > 33 ? Yes
		11	22			33	00	Shift 44 to j+1
				j			i	j
	Г			1	T		I	
		[0]	[1]	[2]	[3]	[4]	[5]	22 . 22 2
		11	22	33	44	55	66	22 > 33 ? No
			j					Copy temp to j+1
			•				i	copy temp to J+1

Check 2 conditions : is j at valid index and is arr[j] > temp If both conditions are true perform 2 steps

- 1) Shift arr[j] to j+1
- 2) Decrement j

Else

Copy temp to j+1