Temp 44

[0]	[1]	[2]	[3]	[4]	[5]
55	44	22	66	11	33

j   i

Is J at valid index ? Yes
&&
44 < 55 ? Yes
1) Shift 55 1 place ahead
2) Decrement j

[0]	[1]	[2]	[3]	[4]	[5]
	55	22	66	11	33

j   i

Is J at valid Index ? No
As J has reached invalid index, we
will copy temp to j+1 index

[0]	[1]	[2]	[3]	[4]	[5]
44	55	22	66	11	33

i

Temp 22

[0]	[1]	[2]	[3]	[4]	[5]
44	55	22	66	11	33

j   i

Is J at valid index ? Yes
&&
22 < 55 ? Yes
1) Shift 55 1 pos ahead
2) Decrement j

[0]	[1]	[2]	[3]	[4]	[5]
44		55	66	11	33

j   i

Is J at valid Index ? Yes
&&
22 < 44 ? Yes
1) Shift 44 to 1 pos ahead
2) Decrement j

[0]	[1]	[2]	[3]	[4]	[5]
	44	55	66	11	33

j   i

Is J at valid index ? NO
As j has reached invalid index,
Copy temp to j+1 index

[0]	[1]	[2]	[3]	[4]	[5]
22	44	55	66	11	33

Temp 66

[0]	[1]	[2]	[3]	[4]	[5]
22	44	55	66	11	33

j   i

Is J at valid index ? YES
&&
66 < 55 ? NO
Copy temp to j+1 index

Temp 11

[0]	[1]	[2]	[3]	[4]	[5]
22	44	55	66	11	33

Is J at valid index ? Yes
&&
Temp < arr[j]
11 < 66 ? Yes

| | | | | |

(partial table, above)   j   i

11 < 66 ? Yes
1) Shift 66 to j+1 index
2) j--

[0]	[1]	[2]	[3]	[4]	[5]
22	44	55		66	33

j   i

Is J at valid index ? Yes
&&
Is temp < arr[j]?
11 < 55 ? Yes
1) Shift 55 to j+1 index
2) j--

[0]	[1]	[2]	[3]	[4]	[5]
22	44		55	66	33

j   i

Is J at valid index ? Yes
&&
Is temp < arr[j]
11 < 44 ? Yes
1) Shift 44 to j+1 index
2) j--

[0]	[1]	[2]	[3]	[4]	[5]
22		44	55	66	33

j   i

Is j at valid index ? Yes
&&
Is 11 < 22 ? Yes
1) Shift 22 to j+1 index
2) j--

[0]	[1]	[2]	[3]	[4]	[5]
	22	44	55	66	33

j   i

Is j at valid index ? No
copy temp to j+1 index

[0]	[1]	[2]	[3]	[4]	[5]
11	22	44	55	66	33

Temp
33

[0]	[1]	[2]	[3]	[4]	[5]
11	22	44	55	66	33

j   i

Is j at valid index ? Yes
&&
Temp < arr[j] ?
33 < 66 ? Yes
1) Shift 66 to j+1 index
2) j--

[0]	[1]	[2]	[3]	[4]	[5]
11	22	44	55		66

j   i

Is j at valid index ? Yes
&&
33 < 55 ? Yes
1) Shift 55 to j+1 index
2) j--

[0]	[1]	[2]	[3]	[4]	[5]
11	22	44		55	66

j   i

Is j at valid index ? Yes
&&
33 < 44 ? Yes
1) Shift 44 to j+1 index
2) j--

j   i   2) j--

[0]	[1]	[2]	[3]	[4]	[5]
11	22		44	55	66

       j   i

Is J at valid Index ? Yes
&&
33 < 22 ? No

Copy temp to J+1 index

[0]	[1]	[2]	[3]	[4]	[5]
11	22	33	44	55	66

Is J at valid Index ? Yes
&&
33 < 22 ? No

Copy temp to J+1 index