

Truth Table: Lab6b #8

‘-----’ = End of loop iteration

Line#	Arr	Index	n	i	Notes
1	[34,2,10,-9]	-	-	-	
2	[34,2,10,-9]	-	4	-	
3	[34,2,10,-9]	0	4	-	
4	[34,2,10,-9]	0	4	-	While loop is true
5	[34,2,10,-9]	0	4	-	If statement is true
6	[34,2,10,-9]	1	4	-	
7	[34,2,10,-9]	1	4	-	If statement not true
8	[34,2,10,-9]	1	4	-	Line 8 does not execute
9	[34,2,10,-9]	1	4	-	Else statement executes
10	[2,34,10,-9]	1	4	-	First two values in Arr are swapped
11	[2,34,10,-9]	0	4	-	
4	[2,34,10,-9]	0	4	-	While loop is true
5	[2,34,10,-9]	0	4	-	If statement is true
6	[2,34,10,-9]	1	4	-	
7	[2,34,10,-9]	1	4	-	If statement is true
8	[2,34,10,-9]	2	4	-	

9-11	[2,34,10,-9]	2	4	-	Lines do not execute
4	[2,34,10,-9]	2	4	-	While loop is true
5-6	[2,34,10,-9]	2	4	-	Lines do not execute
7-8	[2,34,10,-9]	2	4	-	Lines do not execute
9	[2,34,10,-9]	2	4	-	Else statement executes
10	[2,10,34,-9]	2	4	-	Second and third values of Arr are swapped
11	[2,10,34,-9]	1	4	-	
4	[2,10,34,-9]	1	4	-	While loop executes
5-6	[2,10,34,-9]	1	4	-	Lines do not execute
7	[2,10,34,-9]	1	4	-	If statement is true
8	[2,10,34,-9]	2	4	-	
9-11	[2,10,34,-9]	2	4	-	Lines do not execute
4	[2,10,34,-9]	2	4	-	While loop executes
5-6	[2,10,34,-9]	2	4	-	Lines do not execute
7	[2,10,34,-9]	2	4	-	If statement is true
8	[2,10,34,-9]	3	4	-	

9-11	[2,10,34,-9]	3	4	-	Lines do not execute
4	[2,10,34,-9]	3	4	-	While loop executes
5-6	[2,10,34,-9]	3	4	-	Lines do not execute
7	[2,10,34,-9]	3	4	-	If statement is not true
8	[2,10,34,-9]	3	4	-	Line does not execute
9	[2,10,34,-9]	3	4	-	Else statement executes
10	[2,10,-9,34]	3	4	-	Third and fourth value of Arr are swapped
11	[2,10,-9,34]	2	4	-	
4	[2,10,-9,34]	2	4	-	While loop executes
5-6	[2,10,-9,34]	2	4	-	Lines do not execute
7	[2,10,-9,34]	2	4	-	If statement is not true
8	[2,10,-9,34]	2	4	-	Line does not execute
9	[2,10,-9,34]	2	4	-	Else statement executes
10	[2,-9,10,34]	2	4	-	Second and third value of Arr are swapped

11	[2,-9,10,34]	1	4	-	
4	[2,-9,10,34]	1	4	-	While loop executes
5-6	[2,-9,10,34]	1	4	-	Lines do not execute
7	[2,-9,10,34]	1	4	-	If statement is not true
8	[2,-9,10,34]	1	4	-	Line does not execute
9	[2,-9,10,34]	1	4	-	Else statement executes
10	[-9,2,10,34]	1	4	-	First and second values of Arr are swapped
11	[-9,2,10,34]	0	4	-	
4	[-9,2,10,34]	0	4	-	While loop executes
5	[-9,2,10,34]	0	4	-	If statement is true
6	[-9,2,10,34]	1	4	-	
7	[-9,2,10,34]	1	4	-	If statement is true
8	[-9,2,10,34]	2	4	-	
9-11	[-9,2,10,34]	2	4	-	Lines do not execute
4	[-9,2,10,34]	2	4	-	While loop executes
5	[-9,2,10,34]	2	4	-	If statement is true

6	[-9,2,10,34]	3	4	-	
7	[-9,2,10,34]	3	4	-	If statement is true
8	[-9,2,10,34]	4	4	-	
9-11	[-9,2,10,34]	4	4	-	Lines do not execute
4	[-9,2,10,34]	4	4	-	While loop does not execute
12	[-9,2,10,34]	4	4	-	Prints "Sorted sequence after applying gnome sort: "
13	[-9,2,10,34]	4	4	-9	Enter the for loop
14	[-9,2,10,34]	4	4	-9	Prints the value of i
13	[-9,2,10,34]	4	4	2	i indexes forward 1 in Arr
14	[-9,2,10,34]	4	4	2	Prints the value of i
13	[-9,2,10,34]	4	4	10	i indexes forward 1 in Arr
14	[-9,2,10,34]	4	4	10	Prints the value of i
13	[-9,2,10,34]	4	4	34	i indexes forward 1 in Arr
14	[-9,2,10,34]	4	4	34	Prints the value of i

15	[-9,2,10,34]	4	4	34	Prints # of iterations
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