

## Insertion Sort

Trace the following code

```

1  def insertion_sort(mylist):
2      for i in range(1, len(mylist)):
3          item = mylist[i]
4          j = i-1
5          while j >=0 and item < mylist[j]:
6              mylist[j+1] = mylist[j]
7              j=j-1
8          mylist[j+1] = item

9  mylist =[9,7,2,1]
10 insertion_sort(mylist)
11 print(mylist)
  
```

i	item	j	mylist
1	7	0	[9,7,2,1]
		-1	[9,9,2,1]
2	2	1	[7,9,2,1]
		0	[7,9,9,1]
3	1	-1	[2,7,9,1]
		2	[2,7,9,9]
		1	[2,7,7,9]
		0	[2,2,7,9]
		-1	[1,2,7,9]

