```
1
2  def quicksort(seq):
3      if len(seq) <= 1:
4          return list(seq)
5
6      i = len(seq)//2 # let's pick the middle
7
8      pivot, others = seq[i], [*seq[:i], *seq[i + 1:]]
9
10     left = [x for x in others if x < pivot]
11     right = [x for x in others if x >= pivot]
12     left = quicksort(left)
13     right = quicksort(right)
14
15     return [*left, pivot, *right]
16
17 seq = [8,5,6,10,3]
18 print(seq, quicksort(seq), sep='\n')
```

Edit this code

line that just executed

next line to execute

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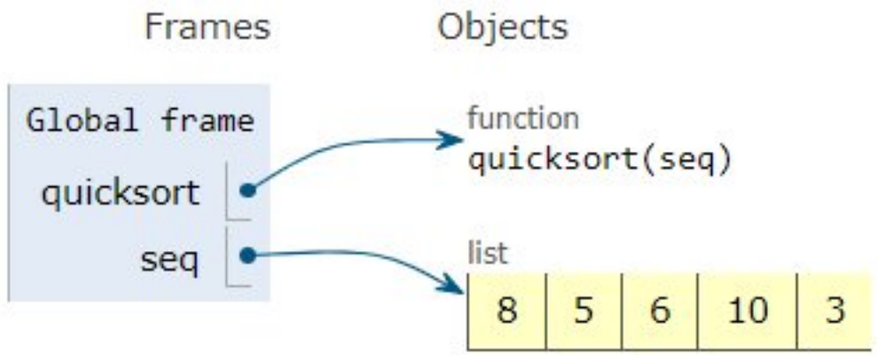
Step 3 of 79

Customize visualization (NEW!)

Print output (drag lower right corner to resize)



```
1
2  def quicksort(seq):
3      if len(seq) <= 1:
4          return list(seq)
5
6      i = len(seq)//2 # let's pick the middle
7
8      pivot, others = seq[i], [*seq[:i], *seq[i + 1:]]
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16
17 seq = [8,5,6,10,3]
18 print(seq, quicksort(seq), sep='\n')
```

Edit this code

line that just executed

next line to execute

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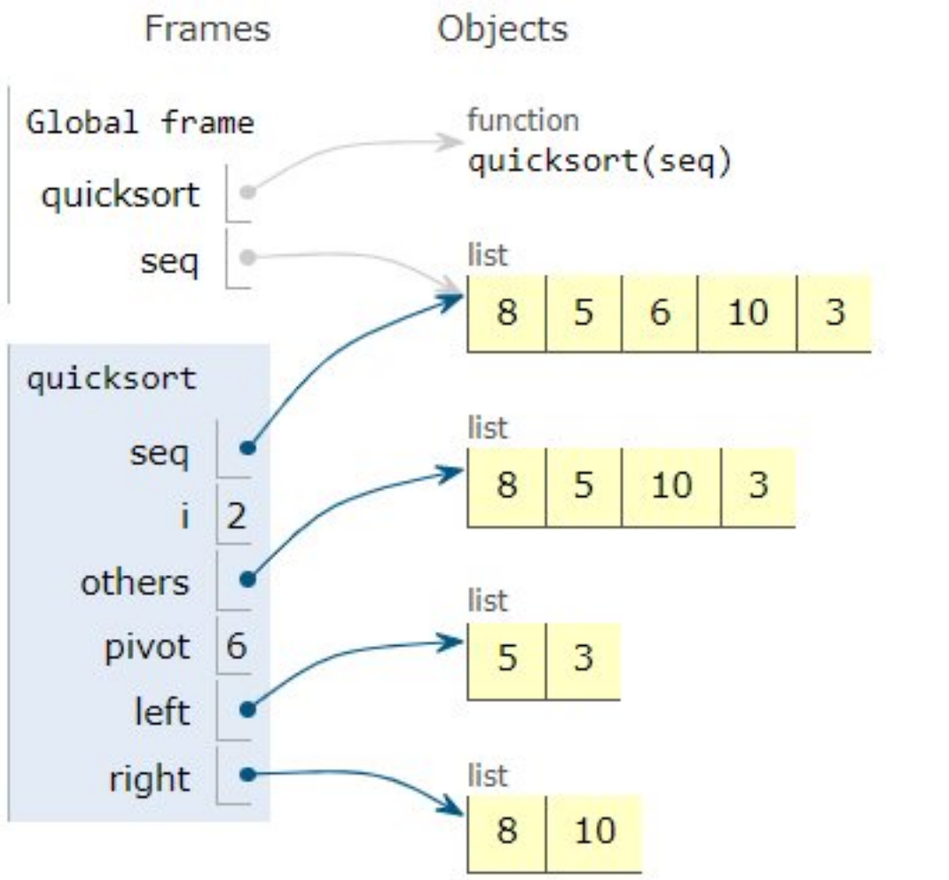
Step 24 of 79

Customize visualization (NEW!)

Print output (drag lower right corner to resize)



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1
2  def quicksort(seq):
3      if len(seq) <= 1:
4          return list(seq)
5
6      i = len(seq)//2 # let's pick the middle
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14
15     return [*left, pivot, *right]
16
17 seq = [8,5,6,10,3]
18 print(seq, quicksort(seq), sep='\n')
```

Edit this code

line that just executed

next line to execute

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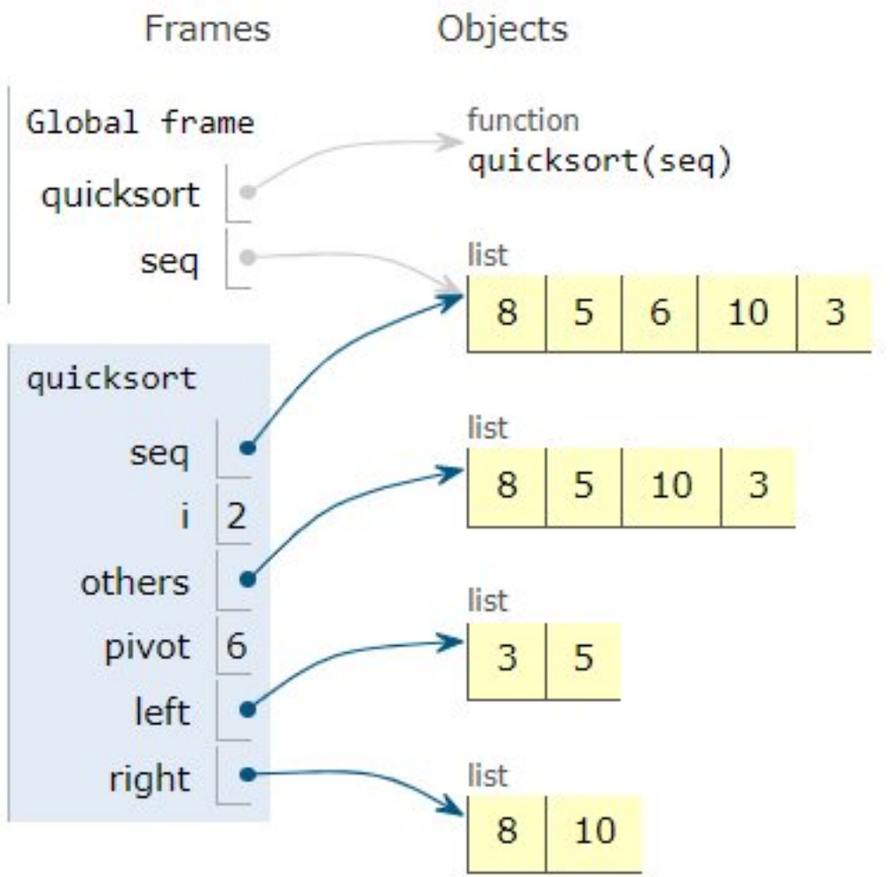
Step 78 of 79

Customize visualization (NEW!)

Print output (drag lower right corner to resize)



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1
2  def quicksort(seq):
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15         return [*left, pivot, *right]
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17 seq = [8,5,6,10,3]
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```

Edit this code

line that just executed

next line to execute

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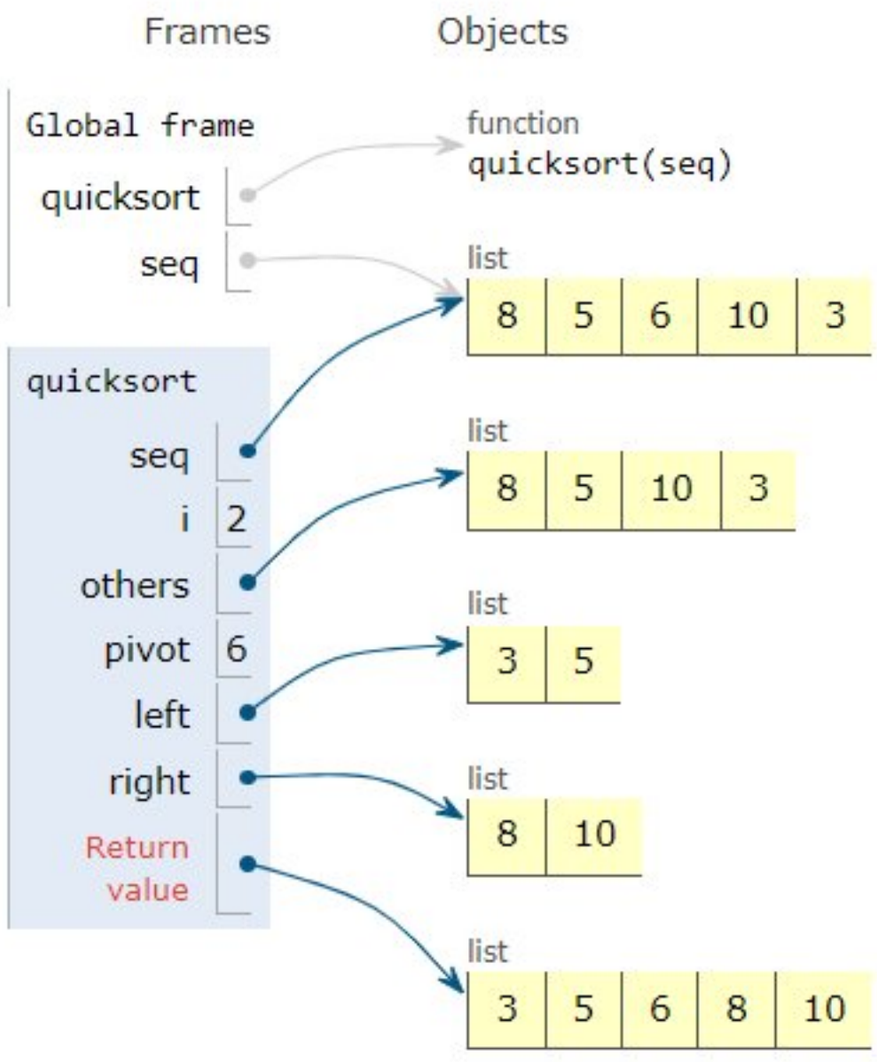
Step 79 of 79

Customize visualization (NEW!)

Print output (drag lower right corner to resize)



```
1
2  def quicksort(seq):
3      if len(seq) <= 1:
4          return list(seq)
5
6      i = len(seq)//2 # let's pick the middle
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15     return [*left, pivot, *right]
16
17 seq = [8,5,6,10,3]
18 print(seq, quicksort(seq), sep='\n')
```

Edit this code

➡ line that just executed

➡ next line to execute

<< First | < Prev | Next > | Last >>

Done running (79 steps)

Customize visualization (NEW!)

Print output (drag lower right corner to resize)

```
[8, 5, 6, 10, 3]
[3, 5, 6, 8, 10]
```