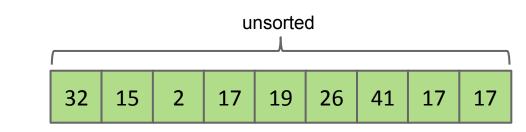
### Quick sorting N items:

- Partition on leftmost item.
- Quicksort left half.
- Quicksort right half.



Quick sorting N items:

partition(32)

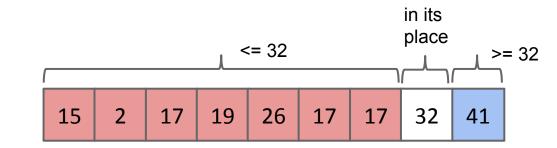
- Partition on leftmost item (32).
- Quicksort left half.
- Quicksort right half.

32   15   2   17   19   26   41   17	17
--------------------------------------	----

Quick sorting N items:

partition(32)

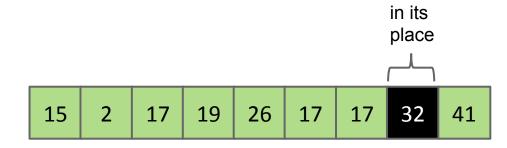
- Partition on leftmost item (32).
- Quicksort left half.
- Quicksort right half.



Quick sorting N items:

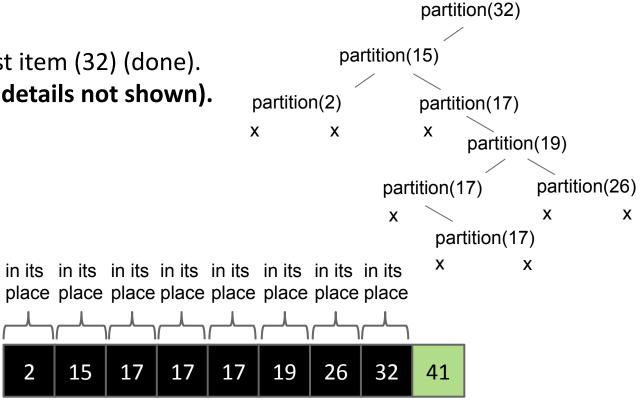
partition(32)

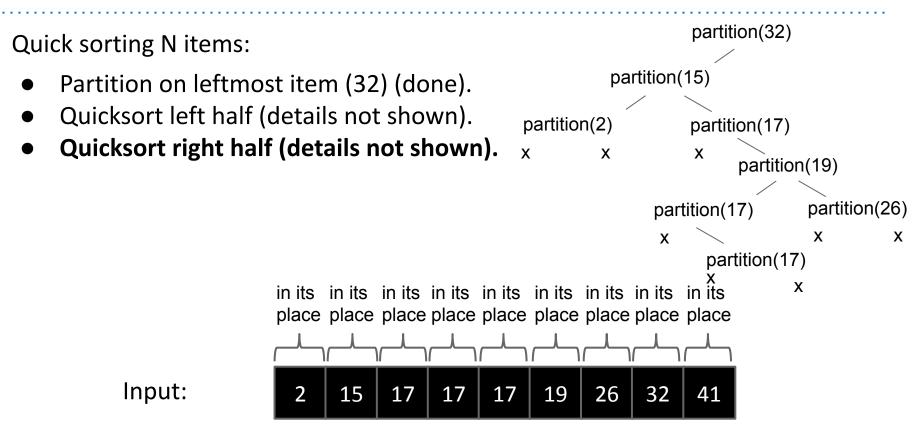
- Partition on leftmost item (32) (done).
- Quicksort left half.
- Quicksort right half.



### Quick sorting N items:

- Partition on leftmost item (32) (done).
- Quicksort left half (details not shown).
- Quicksort right half.



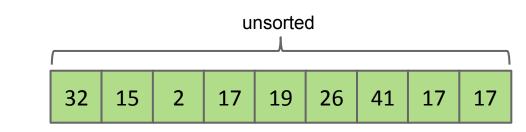


(for those of you who don't fully trust the recursion)

**Quicksort Complete (Extra)** 

### Quick sorting N items:

- Partition on leftmost item.
- Quicksort left half.
- Quicksort right half.



Quick sorting N items:

partition(32)

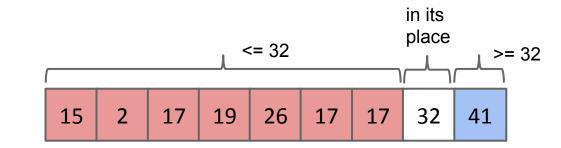
- Partition on leftmost item (32).
- Quicksort left half.
- Quicksort right half.

32	15	2	17	19	26	41	17	17
----	----	---	----	----	----	----	----	----

Quick sorting N items:

partition(32)

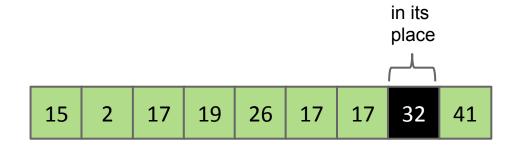
- Partition on leftmost item (32) (done).
- Quicksort left half.
- Quicksort right half.



Quick sorting N items:

partition(32)

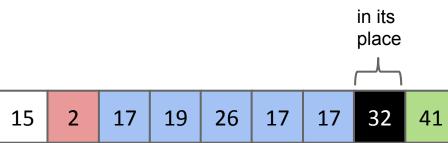
- Partition on leftmost item (32) (done).
- Quicksort left half (up next).
- Quicksort right half.



#### Quick sorting N items:

- Partition on leftmost item (15).
- Quicksort left half.
- Quicksort right half.

Input:



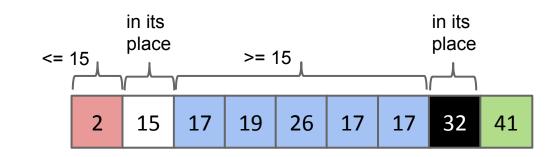
partition(32)

partition(15)

Quick sorting N items:

- Partition on leftmost item (15) (done).
- Quicksort left half.
- Quicksort right half.

Input:

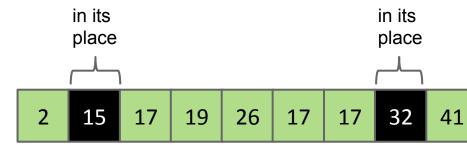


partition(32)

partition(15)

#### Quick sorting N items:

- Partition on leftmost item (15) (done).
- Quicksort left half (up next).
- Quicksort right half.



partition(32)

partition(15)

Quick sorting N items:

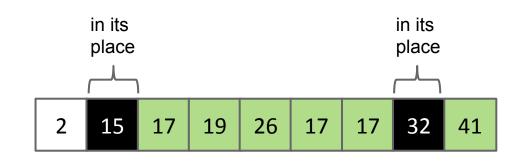
- Partition on leftmost item (2).
- Quicksort left half.
- Quicksort right half.

Input:

partition(32)

partition(15)

partition(2)



#### Quick sorting N items:

Input:

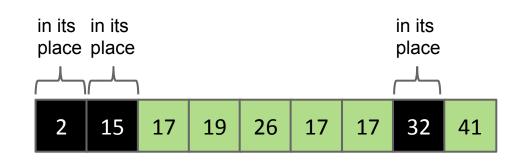
- Partition on leftmost item (2) (done).
- Quicksort left half (size zero, done).
- Quicksort right half (size zero, done).

partition(32)

partition(15)

partition(2)

x x



#### Quick sorting N items:

- Partition on leftmost item (2) (done).
- Quicksort left half (done).

Input:

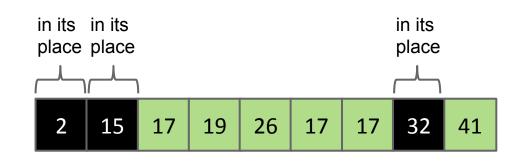
Quicksort right half (up next).

partition(32)

partition(15)

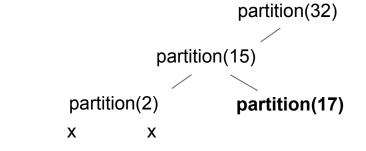
partition(2)

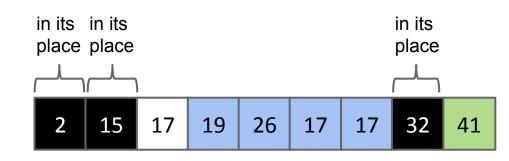
x x



### Quick sorting N items:

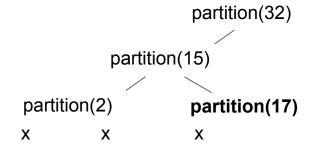
- Partition on leftmost item (17)
- Quicksort left half.
- Quicksort right half.

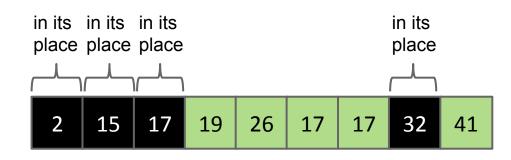




### Quick sorting N items:

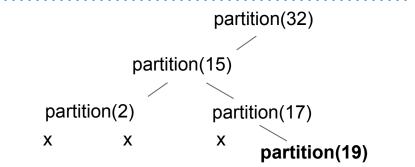
- Partition on leftmost item (17) (done).
- Quicksort left half (size zero, done).
- Quicksort right half (up next).

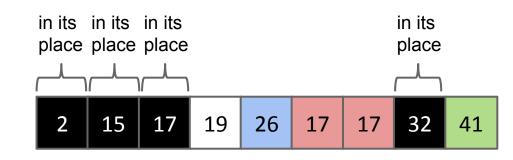




### Quick sorting N items:

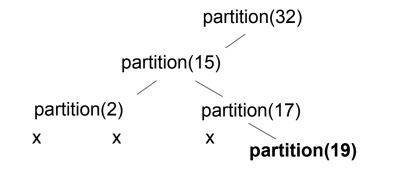
- Partition on leftmost item (19).
- Quicksort left half.
- Quicksort right half.

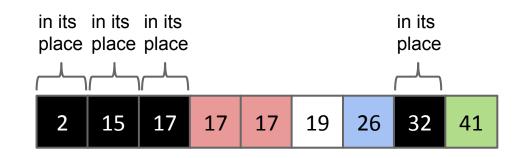




Quick sorting N items:

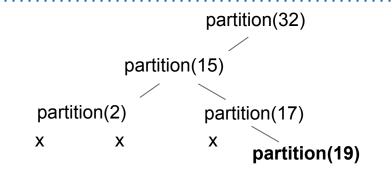
- Partition on leftmost item (19) (done).
- Quicksort left half.
- Quicksort right half.

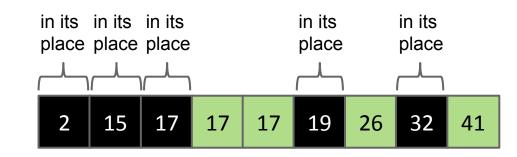




### Quick sorting N items:

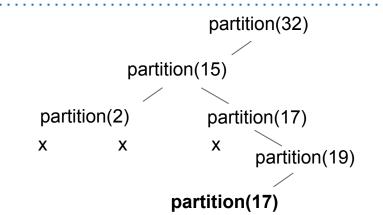
- Partition on leftmost item (19).
- Quicksort left half (up next).
- Quicksort right half.

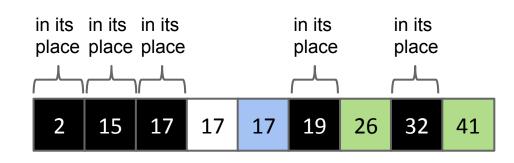




#### Quick sorting N items:

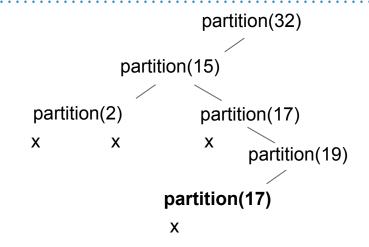
- Partition on leftmost item (17).
- Quicksort left half.
- Quicksort right half.

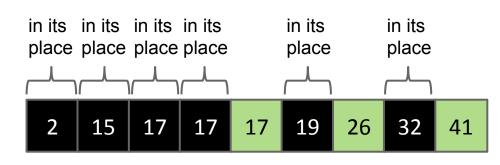




#### Quick sorting N items:

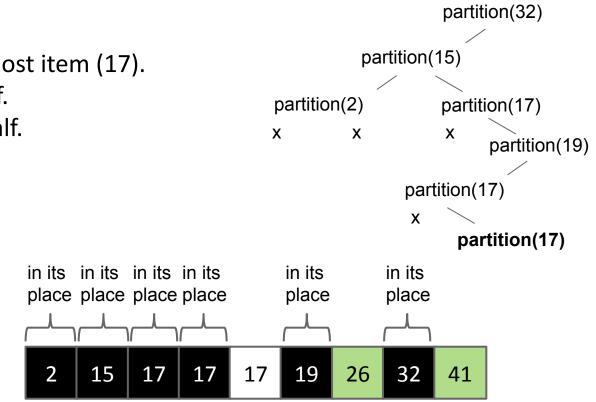
- Partition on leftmost item (17) (done).
- Quicksort left half (size zero, done).
- Quicksort right half (up next).





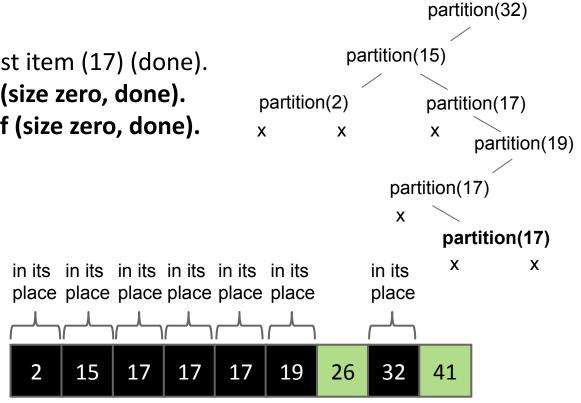
### Quick sorting N items:

- Partition on leftmost item (17).
- Quicksort left half.
- Quicksort right half.



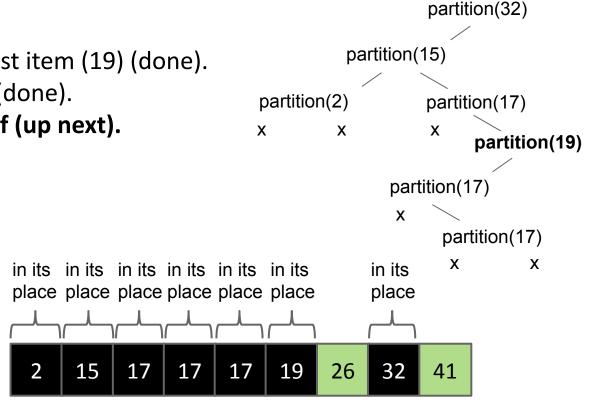
### Quick sorting N items:

- Partition on leftmost item (17) (done).
- Quicksort left half (size zero, done).
- Quicksort right half (size zero, done).



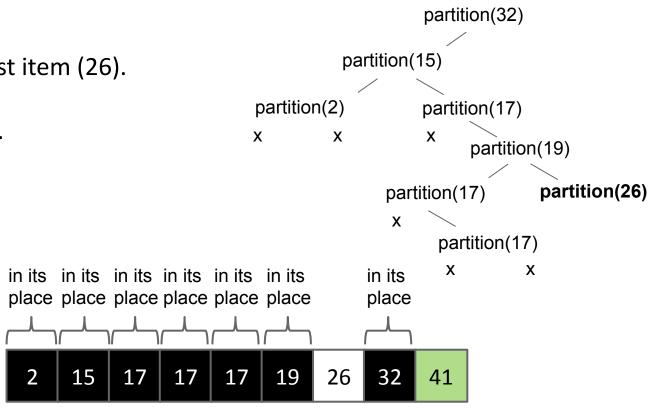
### Quick sorting N items:

- Partition on leftmost item (19) (done).
- Quicksort left half (done).
- Quicksort right half (up next).



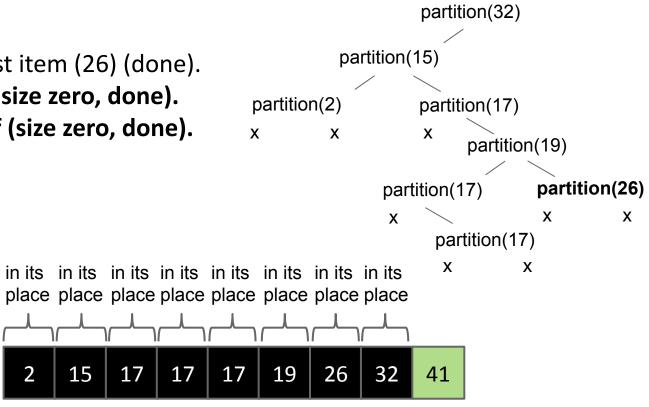
### Quick sorting N items:

- Partition on leftmost item (26).
- Quicksort left half.
- Quicksort right half.



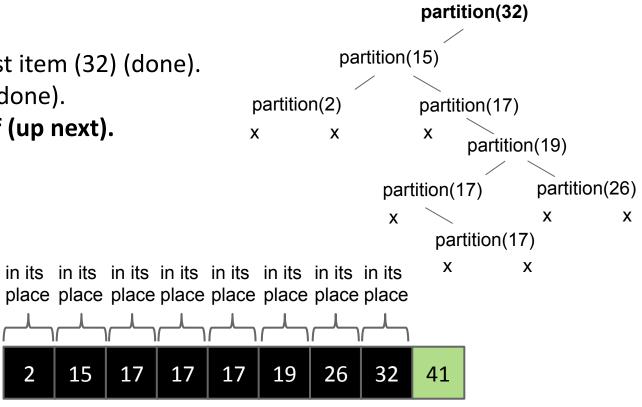
### Quick sorting N items:

- Partition on leftmost item (26) (done).
- Quicksort left half (size zero, done).
- Quicksort right half (size zero, done).



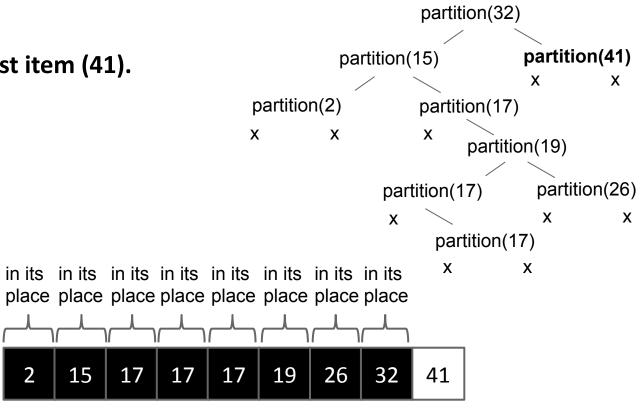
### Quick sorting N items:

- Partition on leftmost item (32) (done).
- Quicksort left half (done).
- Quicksort right half (up next).



### Quick sorting N items:

- Partition on leftmost item (41).
- Quicksort left half.
- Quicksort right half.



### Quick sorting N items:

- Partition on leftmost item (41) (done).
- Quicksort left half (size zero, done).
- Quicksort right half (size zero, done).

