

Basic plan.

input

Q U I C K S O R T E X A M P L E

Basic plan.

• Shuffle the array.

shuffle



Basic plan.

• Shuffle the array.

shuffle

K R A T E L E P U I M Q C X O S

Basic plan.

- Shuffle the array.
- Partition so that, for some j
 - entry a[j] is in place
 - no larger entry to the left of j
 - no smaller entry to the right of j

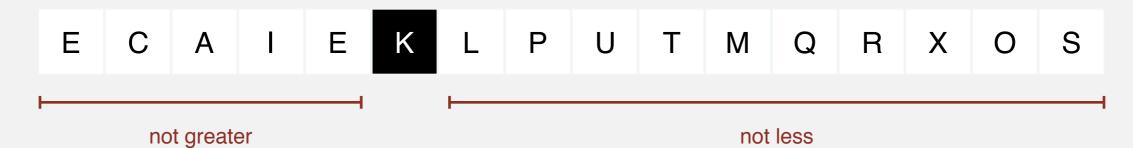
partition



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partition



6

Basic plan.

- Shuffle the array.
- Partition so that, for some j
 - entry a[j] is in place
 - no larger entry to the left of j
 - no smaller entry to the right of j
- Sort each subarray recursively.

sort the left subarray

E C A I E K L P U T M Q R X O S

Basic plan.

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 - entry a[j] is in place
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sort the left subarray



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sort the right subarray

A C E E I K L P U T M Q R X O S

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sort the right subarray



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sorted array

A C E E I K L M O P Q R S T U X