

TerminalShellEditViewWindowHelp

BluetoothBatteryWi-FiSearchCalendarThu Oct 6 10:25 AM

assignment-4-quick-sort - zsh - 202x55

```
98, 155, 137, 191, 109, 215, 203, 284, 349, 364, 456, 227, 248, 457

After partition
98, 109, 137, 191, 155, 215, 203, 284, 349, 364, 456, 227, 248, 457

After partition
98, 109, 137, 191, 155, 215, 203, 284, 349, 364, 456, 227, 248, 457

After partition
98, 109, 137, 155, 191, 215, 203, 284, 349, 364, 456, 227, 248, 457

After partition
98, 109, 137, 155, 191, 203, 215, 284, 349, 364, 456, 227, 248, 457

After partition
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After partition
98, 109, 137, 155, 191, 203, 215, 227, 248, 284, 349, 456, 364, 457

After partition
98, 109, 137, 155, 191, 203, 215, 227, 248, 284, 349, 364, 456, 457

Sorted random array: 2
98, 109, 137, 155, 191, 203, 215, 227, 248, 284, 349, 364, 456, 457

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Quick sort for worst case arrays table

      N      | Actual Count      | T(N) = (n * n)
-----|-----|-----
      20     |      109          |      400
      14     |      104          |      196

Quick sort for random arrays table

      N      | Actual Count      | T(N) = (n logn)
-----|-----|-----
      16     |      38           |      64
      10     |      15           |      30
      13     |      21           |      39

Quick sort using Hoare Partition table

      N      | Actual Count      | T(N) = (n logn)
-----|-----|-----
      18     |      23           |      72
      14     |      14           |      42

rohitkrishnanvidyasagar@Rohits-MacBook-Air assignment-4-quick-sort %
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main\*+ 0 1

Ln 218, Col 59 Spaces: 4 UTF-8 LF {} Java