

quicksort

$\lambda = 1$, $r = 10$

- 1 6 4 2 7 9 3 8 1 10 5
 $\tilde{i} = 1$ $\tilde{j} = 8$ pivot

- 1 1 4 2 7 9 3 8 6 10 5
 \tilde{i} \tilde{j}

- 1 1 4 2 3 9 7 8 6 10 5
 \tilde{j} \tilde{i}

- 1 1 4 2 3 5 7 8 6 10 9
 \tilde{i} \tilde{j}

- 1 1 2 4 3 5 7 8 6 10 9
 \tilde{j} \tilde{i}

- 1 1 2 3 4 5 7 8 6 10 9
 \tilde{j} \tilde{i}

- 1 1 2 3 4 5 7 8 10 6 9
 \tilde{i} \tilde{j}

- 1 1 2 3 4 5 7 8 6 10 9
 \tilde{j} \tilde{i}

- 1 1 2 3 4 5 7 8 6 9 10

merge sort

