

QuickSort

low=0

1

2

3

4

5

6

high=7

a

55

33

11

99

88

22

44

77

Divide and Conquer-Approach

key=55

while

a[i]<key and i<high

i++

while

a[j]>key and j>low

j--

if(i<j)

swap a[i] and a[j]

else

swap a[low] and a[j]

return j;

	0	1	2	3	4	5	6
a	E	X	A	M	P	L	E

low=0

1

2

high=3

a

22

33

11

44

key=22

low=5

6

high=7

88

99

77

key=88

low=2

high=3

33

44

key=33

0

1

2

3

4

5

6

7

a

11

22

33

44

55

77

88

99

	0	1	2	3	4	5	6	7
a	11	22	33	44	55	77	88	99