

4. 

5	3	2	8	1	0	6	7	4
---	---	---	---	---	---	---	---	---

qsort (X, 0, 8).

$i=0, j=8, mid=4, p=j=8.$

4	3	2	8	1	0	6	7	5
P								K

4	3	2	8	1	0	6	7	5
P								K

4	3	2	8	1	0	6	7	5
P								K

4	3	2	8	1	0	6	7	5
P								K

4	3	2	1	8	0	6	7	5
			P			K		

4	3	2	1	0	8	6	7	5
				P			K	

4	3	2	1	0	8	6	7	5
				P			K	

4	3	2	1	0	8	6	7	5
				P			K	

0	3	2	1	4	8	6	7	5
				P				

qsort (X, 0, 3)

0	3	2	1
---	---	---	---

$i=0, j=3, mid=2.$

$P=j=3$

1	3	2	0
P			K

1	3	2	0
P			K

1	3	2	0
P			K

1	0	2	3
P			

0	1	2	3
---	---	---	---

$\bar{P}$

qsort (X, 0, 0)

0
---

return.

qsort (X, 2, 3)

2	3
---	---

$\bar{P}$

3	2
---	---

2	3
---	---

$\bar{P}$

qsort (X, 2, 2)

return.

qsort (X, 5, 8).

8	6	7	5
---	---	---	---

$i=5, j=8, mid=7$

$P=mid=7.$

7	6	8	5
P			K

7	6	8	5
P			K

7	6	8	5
P			K

7	6	5	8
		P	

5	6	7	8
---	---	---	---

qsort (X, 5, 6)  $\bar{P}$

5	6
---	---

$\bar{P}$

6	5
---	---

5	6
---	---

$\bar{P}$

qsort (X, 5, 5)

return.

qsort (X, 8, 8)

return.