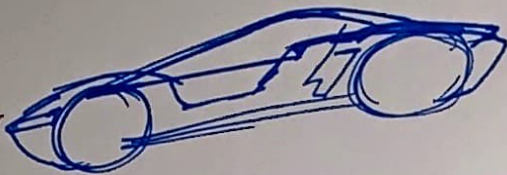


January
2015



5

Monday

005-360

wk-2

Appointments

The left array consists of a single element, hence it is considered sorted

~~Be~~ Take ^{right} array since it does not contain a single element

[9, 7] [pivot - 9]

Now send all small element to right side

→ [7, 9]

update in the array

5, 6, 7, 9.

↳ Now update this in the main array.

1, 2, 3, 4, 5, 6, 7, 9

4, 6, 2, 5, 7, 9, 1, 3

↑

low pointer

↓

high pointer

pivot = low

January

M	T	W	T	F	S	S	M	T	W	T	F	S	S
			1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31								

6
Tuesday

January
2015

006-355

wk - 2

Epiphany

Appointments

8 Pseudocode

9 quicksort

10 To place the pivot in ~~into~~ its correct place.

11 $\begin{matrix} \textcircled{i} \\ \uparrow \\ 4, 6, 2, 5, 7, 9, 7, 9, 1, 3 \\ \downarrow \\ \text{low} \end{matrix}$ $\begin{matrix} \textcircled{j} \\ \downarrow \\ \text{high} \end{matrix}$

13 Take i & place \textcircled{i} leftmost part of arr

14 Take j & place \textcircled{j} rightmost part of arr.

15 Now start \rightarrow
is $4 > \text{pivot}$ - (-ve) (false).

16 is 6 greater than pivot
 $\text{pivot} < 6$ - (+ve)

17 $\begin{matrix} i \\ \downarrow \\ 4, 6, 2, 5, 7, 9, 1, 3 \\ \uparrow \\ j \end{matrix}$
18 i pointer stops $\textcircled{6}$

19 Now find the smaller element than
pivot from right, using the j pointer
($\text{pivot} > j$)

20 Now we swap $\textcircled{6}$ & $\textcircled{3}$

4, 3, 2, 5, 7, 9, 1, 6

February

M	T	W	T	F	S	S	M	T	W	T	F	S	S
							1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28							

8

Thursday

008-357

O

January
2015

wk - 2

Appointments

pseudocode

```

qs(arr, low, high)
{
    if (low >= high)
        return;

```

~~private arr[low]~~

partition = func(arr, low, high)

finds the pivot, places @ it correct place &

tells where it has placed

qs(arr, low, partition-1);

qs(arr, partition+1, high);

} }

int func(arr, low, high)

{ pivot = arr[low];

i = ~~arr~~ low;

j = high;

~~for~~ while (i < j) {

while (arr[i] <= arr[pivot])
{ i++; }

while (arr[j] > pivot & j >= low)

if (i < j)

{ swap (arr[i], arr[j]);

February
M T W T F S S M T W T F S
1 2 3 4 5 6 8
9 10 11 12 13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28