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Date:

Quiz no. 01

0 M T W T F S

arr [3, 2, 1, 4, 5, 6]

import java.util.*;

class cycles {

BSIT507221006

public static void main (String args[]) {

for (int i=5; i>=0; i--) {

for (int j=0; j<=5; j++) {

if (arr[j] < arr[j+1]) {

int t = arr[j];

arr[j] = arr[j+1];

arr[j+1] = t;

i=5, j=0 ✓

j=0 <= 5 ✓

3 < 2 ✗

j=1 <= 5 ✓

2 < 1 ✗

j=2 <= 5 ✓

1 < 4 ✓

t = 1

arr[2] = 4

arr[3] = 1

j=3 <= 5 ✓

4 < 5 ✓

j=4 <= 5 ✓
1 < 6 ✓

j=5 <= 5 ✓

i=4 > 0 ✓

j=0 <= 5 ✓

3 < 2 ✗

j=1 <= 5 ✓

2 < 4 ✓

j=2 <= 5 ✓

2 < 5 ✓

j=3 <= 5 ✓

2 < 6 ✓

0	1	2	3	4	5
3	2	4	1	5	6

0	1	2	3	4	5
3	2	4	5	1	6

0	1	2	3	4	5
3	2	4	5	6	1

0	1	2	3	4	5
3	4	2	5	6	1

0	1	2	3	4	5
3	4	5	2	6	1

0	1	2	3	4	5
3	4	5	2	6	1

Infinity Notes

$$j \leftarrow 4 \quad 2 = 5 \quad \checkmark$$

$$2 < 1 \quad \times$$

$$i \leftarrow 3 \quad 2 = 0 \quad \checkmark$$

$$j \leftarrow 0 \quad 2 = 5 \quad \checkmark$$

$$3 < 4 \quad \checkmark$$

$$j \leftarrow 1 \quad 2 = 5 \quad \checkmark$$

$$3 < 5 \quad \checkmark$$

$$j \leftarrow 2 \quad 2 = 5 \quad \checkmark$$

$$3 < 6 \quad \checkmark$$

$$j \leftarrow 3 \quad 2 = 5 \quad \checkmark$$

$$3 < 2 \quad \times$$

$$j \leftarrow 4 \quad 2 = 5$$

$$2 < 1 \quad \times$$

$$i \leftarrow 2 \quad 2 = 0 \quad \checkmark$$

$$j \leftarrow 0 \quad 2 = 5 \quad \checkmark$$

$$4 < 5 \quad \checkmark$$

$$j \leftarrow 1 \quad 2 = 5 \quad \checkmark$$

$$4 < 6 \quad \checkmark$$

$$j \leftarrow 2 \quad 2 = 5$$

$$4 < 3 \quad \times$$

$$j \leftarrow 3 \quad 2 = 5 \quad \checkmark$$

$$3 < 2 \quad \times$$

$$i \leftarrow 1 \quad 2 = 0 \quad \checkmark$$

$$j \leftarrow 0 \quad 2 = 5 \quad \checkmark$$

$$5 < 6 \quad \checkmark$$

$$j \leftarrow 1 \quad 2 = 5 \quad \checkmark$$

$$5 < 4 \quad \checkmark$$

$$j \leftarrow 2 \quad 2 = 5 \quad \checkmark$$

$$4 < 3 \quad \checkmark$$

All wrong conditions.

0	1	2	3	4	5
4	3	5	6	2	1

0	1	2	3	4	5
4	5	3	6	2	1

0	1	2	3	4	5
4	5	6	3	2	1

0	1	2	3	4	5
5	4	6	3	2	1

0	1	2	3	4	5
5	6	4	3	2	1

0	1	2	3	4	5
6	5	4	3	2	1

0	1	2	3	4	5
6	4	5	3	2	1

0	1	2	3	4	5
6	5	4	3	2	1

arr

0	1	2	3	4	5
6	5	4	3	2	1