\\server2\tsr\Spring\CSE\CSE 110\_MSA\Previous Semesters\Summer 2008\Quiz\Quiz5A.doc

**Expected Output:**

6

39

10

40

13

44

18

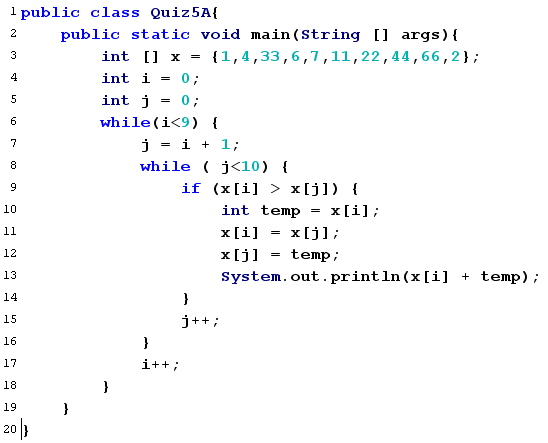
55

33

55

77

110



**Trace Table:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **x** | | | | | | | | | | **i** | **j** | **temp** | **Output** |
| **0** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
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Line 3: int [] x = {1,4,33,6,7,11,22,44,66,2};

index/position/location 0 1 2 3 4 5 6 7 8 9

===============================================================================

x array contents/values 1 4 33 6 7 11 22 44 66 2

Line 4: int i = 0;

Line 5: int j = 0;

Line 6: while(i<9) {

Line 6: while(0<9) {

0 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 0 + 1;Line 7: j = 1;Line 8: while(j<10) {

Line 8: while(1<10) {

1 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[1]) {Line 9: if (+1 > 4) {1 is NOT greater than 4, condition false, skipping IF

Line 15: j++;

j was 1, becomes 2;

Line 8: while(j<10) {

Line 8: while(2<10) {

2 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[2]) {Line 9: if (+1 > 33) {1 is NOT greater than 33, condition false, skipping IF

Line 15: j++;

j was 2, becomes 3;

Line 8: while(j<10) {

Line 8: while(3<10) {

3 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[3]) {Line 9: if (+1 > 6) {1 is NOT greater than 6, condition false, skipping IF

Line 15: j++;

j was 3, becomes 4;

Line 8: while(j<10) {

Line 8: while(4<10) {

4 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[4]) {Line 9: if (+1 > 7) {1 is NOT greater than 7, condition false, skipping IF

Line 15: j++;

j was 4, becomes 5;

Line 8: while(j<10) {

Line 8: while(5<10) {

5 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[5]) {Line 9: if (+1 > 11) {1 is NOT greater than 11, condition false, skipping IF

Line 15: j++;

j was 5, becomes 6;

Line 8: while(j<10) {

Line 8: while(6<10) {

6 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[6]) {Line 9: if (+1 > 22) {1 is NOT greater than 22, condition false, skipping IF

Line 15: j++;

j was 6, becomes 7;

Line 8: while(j<10) {

Line 8: while(7<10) {

7 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[7]) {Line 9: if (+1 > 44) {1 is NOT greater than 44, condition false, skipping IF

Line 15: j++;

j was 7, becomes 8;

Line 8: while(j<10) {

Line 8: while(8<10) {

8 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[8]) {Line 9: if (+1 > 66) {1 is NOT greater than 66, condition false, skipping IF

Line 15: j++;

j was 8, becomes 9;

Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[0] > +x[9]) {Line 9: if (+1 > 2) {1 is NOT greater than 2, condition false, skipping IF

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 0, becomes 1;

Line 6: while(i<9) {

Line 6: while(1<9) {

1 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 1 + 1;Line 7: j = 2;Line 8: while(j<10) {

Line 8: while(2<10) {

2 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[1] > +x[2]) {Line 9: if (+4 > 33) {4 is NOT greater than 33, condition false, skipping IF

Line 15: j++;

j was 2, becomes 3;

Line 8: while(j<10) {

Line 8: while(3<10) {

3 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[1] > +x[3]) {Line 9: if (+4 > 6) {4 is NOT greater than 6, condition false, skipping IF

Line 15: j++;

j was 3, becomes 4;

Line 8: while(j<10) {

Line 8: while(4<10) {

4 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[1] > +x[4]) {Line 9: if (+4 > 7) {4 is NOT greater than 7, condition false, skipping IF

Line 15: j++;

j was 4, becomes 5;

Line 8: while(j<10) {

Line 8: while(5<10) {

5 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[1] > +x[5]) {Line 9: if (+4 > 11) {4 is NOT greater than 11, condition false, skipping IF

Line 15: j++;

j was 5, becomes 6;

Line 8: while(j<10) {

Line 8: while(6<10) {

6 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[1] > +x[6]) {Line 9: if (+4 > 22) {4 is NOT greater than 22, condition false, skipping IF

Line 15: j++;

j was 6, becomes 7;

Line 8: while(j<10) {

Line 8: while(7<10) {

7 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[1] > +x[7]) {Line 9: if (+4 > 44) {4 is NOT greater than 44, condition false, skipping IF

Line 15: j++;

j was 7, becomes 8;

Line 8: while(j<10) {

Line 8: while(8<10) {

8 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[1] > +x[8]) {Line 9: if (+4 > 66) {4 is NOT greater than 66, condition false, skipping IF

Line 15: j++;

j was 8, becomes 9;

Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[1] > +x[9]) {Line 9: if (+4 > 2) {4 is greater than 2, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[1];

Line 10: int temp = 4;

Line 11: x[i] = x[j];

Line 11: x[1] = x[9];

Line 11: x[1] = 2;

Line 11: x[1] was 4, becomes 2

Line 12: x[j] = temp;

Line 12: x[j] = 4;

Line 12: x[9] was 2, becomes 4

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[1] + temp);

Line 13: System.out.println(x[1] + 4);

Line 13: System.out.println(2 + 4);

Line 13: System.out.println(6);

OUTPUT IS 6

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 1, becomes 2;

Line 6: while(i<9) {

Line 6: while(2<9) {

2 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 2 + 1;Line 7: j = 3;Line 8: while(j<10) {

Line 8: while(3<10) {

3 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[2] > +x[3]) {Line 9: if (+33 > 6) {33 is greater than 6, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[2];

Line 10: int temp = 33;

Line 11: x[i] = x[j];

Line 11: x[2] = x[3];

Line 11: x[2] = 6;

Line 11: x[2] was 33, becomes 6

Line 12: x[j] = temp;

Line 12: x[j] = 33;

Line 12: x[3] was 6, becomes 33

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[2] + temp);

Line 13: System.out.println(x[2] + 33);

Line 13: System.out.println(6 + 33);

Line 13: System.out.println(39);

OUTPUT IS 39

Line 15: j++;

j was 3, becomes 4;

Line 8: while(j<10) {

Line 8: while(4<10) {

4 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[2] > +x[4]) {Line 9: if (+6 > 7) {6 is NOT greater than 7, condition false, skipping IF

Line 15: j++;

j was 4, becomes 5;

Line 8: while(j<10) {

Line 8: while(5<10) {

5 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[2] > +x[5]) {Line 9: if (+6 > 11) {6 is NOT greater than 11, condition false, skipping IF

Line 15: j++;

j was 5, becomes 6;

Line 8: while(j<10) {

Line 8: while(6<10) {

6 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[2] > +x[6]) {Line 9: if (+6 > 22) {6 is NOT greater than 22, condition false, skipping IF

Line 15: j++;

j was 6, becomes 7;

Line 8: while(j<10) {

Line 8: while(7<10) {

7 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[2] > +x[7]) {Line 9: if (+6 > 44) {6 is NOT greater than 44, condition false, skipping IF

Line 15: j++;

j was 7, becomes 8;

Line 8: while(j<10) {

Line 8: while(8<10) {

8 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[2] > +x[8]) {Line 9: if (+6 > 66) {6 is NOT greater than 66, condition false, skipping IF

Line 15: j++;

j was 8, becomes 9;

Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[2] > +x[9]) {Line 9: if (+6 > 4) {6 is greater than 4, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[2];

Line 10: int temp = 6;

Line 11: x[i] = x[j];

Line 11: x[2] = x[9];

Line 11: x[2] = 4;

Line 11: x[2] was 6, becomes 4

Line 12: x[j] = temp;

Line 12: x[j] = 6;

Line 12: x[9] was 4, becomes 6

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[2] + temp);

Line 13: System.out.println(x[2] + 6);

Line 13: System.out.println(4 + 6);

Line 13: System.out.println(10);

OUTPUT IS 10

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 2, becomes 3;

Line 6: while(i<9) {

Line 6: while(3<9) {

3 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 3 + 1;Line 7: j = 4;Line 8: while(j<10) {

Line 8: while(4<10) {

4 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[3] > +x[4]) {Line 9: if (+33 > 7) {33 is greater than 7, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[3];

Line 10: int temp = 33;

Line 11: x[i] = x[j];

Line 11: x[3] = x[4];

Line 11: x[3] = 7;

Line 11: x[3] was 33, becomes 7

Line 12: x[j] = temp;

Line 12: x[j] = 33;

Line 12: x[4] was 7, becomes 33

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[3] + temp);

Line 13: System.out.println(x[3] + 33);

Line 13: System.out.println(7 + 33);

Line 13: System.out.println(40);

OUTPUT IS 40

Line 15: j++;

j was 4, becomes 5;

Line 8: while(j<10) {

Line 8: while(5<10) {

5 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[3] > +x[5]) {Line 9: if (+7 > 11) {7 is NOT greater than 11, condition false, skipping IF

Line 15: j++;

j was 5, becomes 6;

Line 8: while(j<10) {

Line 8: while(6<10) {

6 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[3] > +x[6]) {Line 9: if (+7 > 22) {7 is NOT greater than 22, condition false, skipping IF

Line 15: j++;

j was 6, becomes 7;

Line 8: while(j<10) {

Line 8: while(7<10) {

7 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[3] > +x[7]) {Line 9: if (+7 > 44) {7 is NOT greater than 44, condition false, skipping IF

Line 15: j++;

j was 7, becomes 8;

Line 8: while(j<10) {

Line 8: while(8<10) {

8 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[3] > +x[8]) {Line 9: if (+7 > 66) {7 is NOT greater than 66, condition false, skipping IF

Line 15: j++;

j was 8, becomes 9;

Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[3] > +x[9]) {Line 9: if (+7 > 6) {7 is greater than 6, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[3];

Line 10: int temp = 7;

Line 11: x[i] = x[j];

Line 11: x[3] = x[9];

Line 11: x[3] = 6;

Line 11: x[3] was 7, becomes 6

Line 12: x[j] = temp;

Line 12: x[j] = 7;

Line 12: x[9] was 6, becomes 7

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[3] + temp);

Line 13: System.out.println(x[3] + 7);

Line 13: System.out.println(6 + 7);

Line 13: System.out.println(13);

OUTPUT IS 13

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 3, becomes 4;

Line 6: while(i<9) {

Line 6: while(4<9) {

4 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 4 + 1;Line 7: j = 5;Line 8: while(j<10) {

Line 8: while(5<10) {

5 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[4] > +x[5]) {Line 9: if (+33 > 11) {33 is greater than 11, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[4];

Line 10: int temp = 33;

Line 11: x[i] = x[j];

Line 11: x[4] = x[5];

Line 11: x[4] = 11;

Line 11: x[4] was 33, becomes 11

Line 12: x[j] = temp;

Line 12: x[j] = 33;

Line 12: x[5] was 11, becomes 33

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[4] + temp);

Line 13: System.out.println(x[4] + 33);

Line 13: System.out.println(11 + 33);

Line 13: System.out.println(44);

OUTPUT IS 44

Line 15: j++;

j was 5, becomes 6;

Line 8: while(j<10) {

Line 8: while(6<10) {

6 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[4] > +x[6]) {Line 9: if (+11 > 22) {11 is NOT greater than 22, condition false, skipping IF

Line 15: j++;

j was 6, becomes 7;

Line 8: while(j<10) {

Line 8: while(7<10) {

7 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[4] > +x[7]) {Line 9: if (+11 > 44) {11 is NOT greater than 44, condition false, skipping IF

Line 15: j++;

j was 7, becomes 8;

Line 8: while(j<10) {

Line 8: while(8<10) {

8 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[4] > +x[8]) {Line 9: if (+11 > 66) {11 is NOT greater than 66, condition false, skipping IF

Line 15: j++;

j was 8, becomes 9;

Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[4] > +x[9]) {Line 9: if (+11 > 7) {11 is greater than 7, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[4];

Line 10: int temp = 11;

Line 11: x[i] = x[j];

Line 11: x[4] = x[9];

Line 11: x[4] = 7;

Line 11: x[4] was 11, becomes 7

Line 12: x[j] = temp;

Line 12: x[j] = 11;

Line 12: x[9] was 7, becomes 11

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[4] + temp);

Line 13: System.out.println(x[4] + 11);

Line 13: System.out.println(7 + 11);

Line 13: System.out.println(18);

OUTPUT IS 18

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 4, becomes 5;

Line 6: while(i<9) {

Line 6: while(5<9) {

5 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 5 + 1;Line 7: j = 6;Line 8: while(j<10) {

Line 8: while(6<10) {

6 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[5] > +x[6]) {Line 9: if (+33 > 22) {33 is greater than 22, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[5];

Line 10: int temp = 33;

Line 11: x[i] = x[j];

Line 11: x[5] = x[6];

Line 11: x[5] = 22;

Line 11: x[5] was 33, becomes 22

Line 12: x[j] = temp;

Line 12: x[j] = 33;

Line 12: x[6] was 22, becomes 33

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[5] + temp);

Line 13: System.out.println(x[5] + 33);

Line 13: System.out.println(22 + 33);

Line 13: System.out.println(55);

OUTPUT IS 55

Line 15: j++;

j was 6, becomes 7;

Line 8: while(j<10) {

Line 8: while(7<10) {

7 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[5] > +x[7]) {Line 9: if (+22 > 44) {22 is NOT greater than 44, condition false, skipping IF

Line 15: j++;

j was 7, becomes 8;

Line 8: while(j<10) {

Line 8: while(8<10) {

8 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[5] > +x[8]) {Line 9: if (+22 > 66) {22 is NOT greater than 66, condition false, skipping IF

Line 15: j++;

j was 8, becomes 9;

Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[5] > +x[9]) {Line 9: if (+22 > 11) {22 is greater than 11, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[5];

Line 10: int temp = 22;

Line 11: x[i] = x[j];

Line 11: x[5] = x[9];

Line 11: x[5] = 11;

Line 11: x[5] was 22, becomes 11

Line 12: x[j] = temp;

Line 12: x[j] = 22;

Line 12: x[9] was 11, becomes 22

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[5] + temp);

Line 13: System.out.println(x[5] + 22);

Line 13: System.out.println(11 + 22);

Line 13: System.out.println(33);

OUTPUT IS 33

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 5, becomes 6;

Line 6: while(i<9) {

Line 6: while(6<9) {

6 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 6 + 1;Line 7: j = 7;Line 8: while(j<10) {

Line 8: while(7<10) {

7 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[6] > +x[7]) {Line 9: if (+33 > 44) {33 is NOT greater than 44, condition false, skipping IF

Line 15: j++;

j was 7, becomes 8;

Line 8: while(j<10) {

Line 8: while(8<10) {

8 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[6] > +x[8]) {Line 9: if (+33 > 66) {33 is NOT greater than 66, condition false, skipping IF

Line 15: j++;

j was 8, becomes 9;

Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[6] > +x[9]) {Line 9: if (+33 > 22) {33 is greater than 22, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[6];

Line 10: int temp = 33;

Line 11: x[i] = x[j];

Line 11: x[6] = x[9];

Line 11: x[6] = 22;

Line 11: x[6] was 33, becomes 22

Line 12: x[j] = temp;

Line 12: x[j] = 33;

Line 12: x[9] was 22, becomes 33

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[6] + temp);

Line 13: System.out.println(x[6] + 33);

Line 13: System.out.println(22 + 33);

Line 13: System.out.println(55);

OUTPUT IS 55

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 6, becomes 7;

Line 6: while(i<9) {

Line 6: while(7<9) {

7 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 7 + 1;Line 7: j = 8;Line 8: while(j<10) {

Line 8: while(8<10) {

8 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[7] > +x[8]) {Line 9: if (+44 > 66) {44 is NOT greater than 66, condition false, skipping IF

Line 15: j++;

j was 8, becomes 9;

Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[7] > +x[9]) {Line 9: if (+44 > 33) {44 is greater than 33, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[7];

Line 10: int temp = 44;

Line 11: x[i] = x[j];

Line 11: x[7] = x[9];

Line 11: x[7] = 33;

Line 11: x[7] was 44, becomes 33

Line 12: x[j] = temp;

Line 12: x[j] = 44;

Line 12: x[9] was 33, becomes 44

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[7] + temp);

Line 13: System.out.println(x[7] + 44);

Line 13: System.out.println(33 + 44);

Line 13: System.out.println(77);

OUTPUT IS 77

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 7, becomes 8;

Line 6: while(i<9) {

Line 6: while(8<9) {

8 is less than 9, condition true, going inside 1st while

Line 7: j = i + 1;Line 7: j = 8 + 1;Line 7: j = 9;Line 8: while(j<10) {

Line 8: while(9<10) {

9 is less than 10, condition true, going inside 2nd while

Line 9: if (x[i] > x[j]) {Line 9: if (x[8] > +x[9]) {Line 9: if (+66 > 44) {66 is greater than 44, condition true, going inside IF

Line 10: int temp = x[i];

Line 10: int temp = x[8];

Line 10: int temp = 66;

Line 11: x[i] = x[j];

Line 11: x[8] = x[9];

Line 11: x[8] = 44;

Line 11: x[8] was 66, becomes 44

Line 12: x[j] = temp;

Line 12: x[j] = 66;

Line 12: x[9] was 44, becomes 66

Line 13: System.out.println(x[i] + temp);

Line 13: System.out.println(x[8] + temp);

Line 13: System.out.println(x[8] + 66);

Line 13: System.out.println(44 + 66);

Line 13: System.out.println(110);

OUTPUT IS 110

Line 15: j++;

j was 9, becomes 10;

Line 8: while(j<10) {

Line 8: while(10<10) {

10 is NOT less than 10, condition false, going outside of 2nd while

Line 17: i++;

i was 8, becomes 9;

Line 6: while(i<9) {

Line 6: while(9<9) {

9 is NOT less than 9, condition false, going outside of 1st while