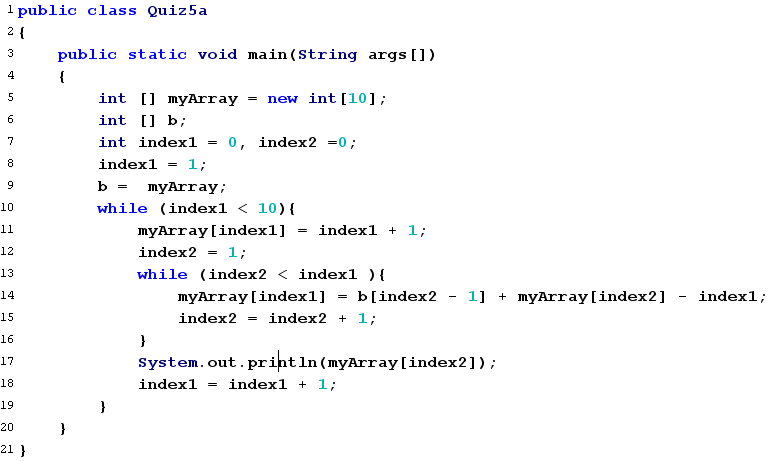
\\server2\tsr\Spring\CSE\CSE 110\_MSA\Practice Problems\ Practice Problems 03 Arrays and Class.doc

**Question 28.**



**Trace Table:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **index1** | **index2** | **myArray / b** | | | | | | | | | | **Output** |
| **0** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
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Line 5: int [] myArray = new int[10];

new int[10] creates an array of 10 integers and stores it somewhere in computer memory.

At the time of writing is program, the location was [I@43487e

Then for the equal sign, the location/reference of the newly created array gets stored at the left hand side, inside the reference variable "myArray". If you try to print the reference of the array stored in the variable "myArray" using System.out.println(myArray); you will be able to find that out.

So, first, we have:

At Computer Memory Location: [I@43487e

index: 0 1 2 3 4 5 6 7 8 9

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

value: 0 0 0 0 0 0 0 0 0 0

Then the location/address[I@43487e gets stored inside myArray

So, myArray = [I@43487e

Line 6: int [] b;

Another array reference variable has been declared called b. But this b does not refer/point to any array yet.

Line 7: int index1 = 0, index2 =0;

value of the variables index1 and index2 have been initialized to zero

Line 8: index1 = 1;

index1 was 0, now becomes 1

Line 9: b = myArray;

Reference that was stored inside myArray gets copied to b. From now on, both of the reference variable b and myArray will refer to the same array.

For your reference:

myArray = [I@43487e

b = [I@43487e

Line 10: while (index1 < 10){

Line 10: while (1 < 10){

1 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 2;

Line 11: myArray[1] = 2;

myArray[1] was 0, now becomes 2

Line 12: index2 = 1;

index2 was 0, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 1 ){){

1 is NOT less than 1, condition false, going outside of 2nd while...

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[1]);

Line 17: System.out.println(2);

2

Line 18: index1 = index1 + 1;

Line 18: index1 = 1 + 1;

Line 18: index1 = 2;

Line 10: while (index1 < 10){

Line 10: while (2 < 10){

2 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 3;

Line 11: myArray[2] = 3;

myArray[2] was 0, now becomes 3

Line 12: index2 = 1;

index2 was 1, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 2 ){){

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

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[2] = b[1 - 1] + myArray[1] - 2;

Line 14: myArray[2] = b[0] + 2 - 2;

Line 14: myArray[2] = 0 + 2 - 2;

Line 14: myArray[2] = 2 - 2;

Line 14: myArray[2] = 0;

myArray[2] was 3, becomes 0

Line 15: index2 = index2 + 1;

Line 15: index2 = 1 + 1;

Line 15: index2 = 2;

Line 13: while (index2 < index1 ){

Line 13: while (2 < 2 ){){

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

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[2]);

Line 17: System.out.println(0);

0

Line 18: index1 = index1 + 1;

Line 18: index1 = 2 + 1;

Line 18: index1 = 3;

Line 10: while (index1 < 10){

Line 10: while (3 < 10){

3 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 4;

Line 11: myArray[3] = 4;

myArray[3] was 0, now becomes 4

Line 12: index2 = 1;

index2 was 2, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 3 ){){

1 is less than 3, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[3] = b[1 - 1] + myArray[1] - 3;

Line 14: myArray[3] = b[0] + 2 - 3;

Line 14: myArray[3] = 0 + 2 - 3;

Line 14: myArray[3] = 2 - 3;

Line 14: myArray[3] = -1;

myArray[3] was 4, becomes -1

Line 15: index2 = index2 + 1;

Line 15: index2 = 1 + 1;

Line 15: index2 = 2;

Line 13: while (index2 < index1 ){

Line 13: while (2 < 3 ){){

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

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[3] = b[2 - 1] + myArray[2] - 3;

Line 14: myArray[3] = b[1] + 0 - 3;

Line 14: myArray[3] = 2 + 0 - 3;

Line 14: myArray[3] = 2 - 3;

Line 14: myArray[3] = -1;

myArray[3] was -1, becomes -1

Line 15: index2 = index2 + 1;

Line 15: index2 = 2 + 1;

Line 15: index2 = 3;

Line 13: while (index2 < index1 ){

Line 13: while (3 < 3 ){){

3 is NOT less than 3, condition false, going outside of 2nd while...

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[3]);

Line 17: System.out.println(-1);

-1

Line 18: index1 = index1 + 1;

Line 18: index1 = 3 + 1;

Line 18: index1 = 4;

Line 10: while (index1 < 10){

Line 10: while (4 < 10){

4 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 5;

Line 11: myArray[4] = 5;

myArray[4] was 0, now becomes 5

Line 12: index2 = 1;

index2 was 3, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 4 ){){

1 is less than 4, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[4] = b[1 - 1] + myArray[1] - 4;

Line 14: myArray[4] = b[0] + 2 - 4;

Line 14: myArray[4] = 0 + 2 - 4;

Line 14: myArray[4] = 2 - 4;

Line 14: myArray[4] = -2;

myArray[4] was 5, becomes -2

Line 15: index2 = index2 + 1;

Line 15: index2 = 1 + 1;

Line 15: index2 = 2;

Line 13: while (index2 < index1 ){

Line 13: while (2 < 4 ){){

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

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[4] = b[2 - 1] + myArray[2] - 4;

Line 14: myArray[4] = b[1] + 0 - 4;

Line 14: myArray[4] = 2 + 0 - 4;

Line 14: myArray[4] = 2 - 4;

Line 14: myArray[4] = -2;

myArray[4] was -2, becomes -2

Line 15: index2 = index2 + 1;

Line 15: index2 = 2 + 1;

Line 15: index2 = 3;

Line 13: while (index2 < index1 ){

Line 13: while (3 < 4 ){){

3 is less than 4, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[4] = b[3 - 1] + myArray[3] - 4;

Line 14: myArray[4] = b[2] + -1 - 4;

Line 14: myArray[4] = 0 + -1 - 4;

Line 14: myArray[4] = -1 - 4;

Line 14: myArray[4] = -5;

myArray[4] was -2, becomes -5

Line 15: index2 = index2 + 1;

Line 15: index2 = 3 + 1;

Line 15: index2 = 4;

Line 13: while (index2 < index1 ){

Line 13: while (4 < 4 ){){

4 is NOT less than 4, condition false, going outside of 2nd while...

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[4]);

Line 17: System.out.println(-5);

-5

Line 18: index1 = index1 + 1;

Line 18: index1 = 4 + 1;

Line 18: index1 = 5;

Line 10: while (index1 < 10){

Line 10: while (5 < 10){

5 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 6;

Line 11: myArray[5] = 6;

myArray[5] was 0, now becomes 6

Line 12: index2 = 1;

index2 was 4, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 5 ){){

1 is less than 5, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[5] = b[1 - 1] + myArray[1] - 5;

Line 14: myArray[5] = b[0] + 2 - 5;

Line 14: myArray[5] = 0 + 2 - 5;

Line 14: myArray[5] = 2 - 5;

Line 14: myArray[5] = -3;

myArray[5] was 6, becomes -3

Line 15: index2 = index2 + 1;

Line 15: index2 = 1 + 1;

Line 15: index2 = 2;

Line 13: while (index2 < index1 ){

Line 13: while (2 < 5 ){){

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

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[5] = b[2 - 1] + myArray[2] - 5;

Line 14: myArray[5] = b[1] + 0 - 5;

Line 14: myArray[5] = 2 + 0 - 5;

Line 14: myArray[5] = 2 - 5;

Line 14: myArray[5] = -3;

myArray[5] was -3, becomes -3

Line 15: index2 = index2 + 1;

Line 15: index2 = 2 + 1;

Line 15: index2 = 3;

Line 13: while (index2 < index1 ){

Line 13: while (3 < 5 ){){

3 is less than 5, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[5] = b[3 - 1] + myArray[3] - 5;

Line 14: myArray[5] = b[2] + -1 - 5;

Line 14: myArray[5] = 0 + -1 - 5;

Line 14: myArray[5] = -1 - 5;

Line 14: myArray[5] = -6;

myArray[5] was -3, becomes -6

Line 15: index2 = index2 + 1;

Line 15: index2 = 3 + 1;

Line 15: index2 = 4;

Line 13: while (index2 < index1 ){

Line 13: while (4 < 5 ){){

4 is less than 5, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[5] = b[4 - 1] + myArray[4] - 5;

Line 14: myArray[5] = b[3] + -5 - 5;

Line 14: myArray[5] = -1 + -5 - 5;

Line 14: myArray[5] = -6 - 5;

Line 14: myArray[5] = -11;

myArray[5] was -6, becomes -11

Line 15: index2 = index2 + 1;

Line 15: index2 = 4 + 1;

Line 15: index2 = 5;

Line 13: while (index2 < index1 ){

Line 13: while (5 < 5 ){){

5 is NOT less than 5, condition false, going outside of 2nd while...

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[5]);

Line 17: System.out.println(-11);

-11

Line 18: index1 = index1 + 1;

Line 18: index1 = 5 + 1;

Line 18: index1 = 6;

Line 10: while (index1 < 10){

Line 10: while (6 < 10){

6 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 7;

Line 11: myArray[6] = 7;

myArray[6] was 0, now becomes 7

Line 12: index2 = 1;

index2 was 5, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 6 ){){

1 is less than 6, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[6] = b[1 - 1] + myArray[1] - 6;

Line 14: myArray[6] = b[0] + 2 - 6;

Line 14: myArray[6] = 0 + 2 - 6;

Line 14: myArray[6] = 2 - 6;

Line 14: myArray[6] = -4;

myArray[6] was 7, becomes -4

Line 15: index2 = index2 + 1;

Line 15: index2 = 1 + 1;

Line 15: index2 = 2;

Line 13: while (index2 < index1 ){

Line 13: while (2 < 6 ){){

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

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[6] = b[2 - 1] + myArray[2] - 6;

Line 14: myArray[6] = b[1] + 0 - 6;

Line 14: myArray[6] = 2 + 0 - 6;

Line 14: myArray[6] = 2 - 6;

Line 14: myArray[6] = -4;

myArray[6] was -4, becomes -4

Line 15: index2 = index2 + 1;

Line 15: index2 = 2 + 1;

Line 15: index2 = 3;

Line 13: while (index2 < index1 ){

Line 13: while (3 < 6 ){){

3 is less than 6, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[6] = b[3 - 1] + myArray[3] - 6;

Line 14: myArray[6] = b[2] + -1 - 6;

Line 14: myArray[6] = 0 + -1 - 6;

Line 14: myArray[6] = -1 - 6;

Line 14: myArray[6] = -7;

myArray[6] was -4, becomes -7

Line 15: index2 = index2 + 1;

Line 15: index2 = 3 + 1;

Line 15: index2 = 4;

Line 13: while (index2 < index1 ){

Line 13: while (4 < 6 ){){

4 is less than 6, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[6] = b[4 - 1] + myArray[4] - 6;

Line 14: myArray[6] = b[3] + -5 - 6;

Line 14: myArray[6] = -1 + -5 - 6;

Line 14: myArray[6] = -6 - 6;

Line 14: myArray[6] = -12;

myArray[6] was -7, becomes -12

Line 15: index2 = index2 + 1;

Line 15: index2 = 4 + 1;

Line 15: index2 = 5;

Line 13: while (index2 < index1 ){

Line 13: while (5 < 6 ){){

5 is less than 6, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[6] = b[5 - 1] + myArray[5] - 6;

Line 14: myArray[6] = b[4] + -11 - 6;

Line 14: myArray[6] = -5 + -11 - 6;

Line 14: myArray[6] = -16 - 6;

Line 14: myArray[6] = -22;

myArray[6] was -12, becomes -22

Line 15: index2 = index2 + 1;

Line 15: index2 = 5 + 1;

Line 15: index2 = 6;

Line 13: while (index2 < index1 ){

Line 13: while (6 < 6 ){){

6 is NOT less than 6, condition false, going outside of 2nd while...

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[6]);

Line 17: System.out.println(-22);

-22

Line 18: index1 = index1 + 1;

Line 18: index1 = 6 + 1;

Line 18: index1 = 7;

Line 10: while (index1 < 10){

Line 10: while (7 < 10){

7 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 8;

Line 11: myArray[7] = 8;

myArray[7] was 0, now becomes 8

Line 12: index2 = 1;

index2 was 6, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 7 ){){

1 is less than 7, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[7] = b[1 - 1] + myArray[1] - 7;

Line 14: myArray[7] = b[0] + 2 - 7;

Line 14: myArray[7] = 0 + 2 - 7;

Line 14: myArray[7] = 2 - 7;

Line 14: myArray[7] = -5;

myArray[7] was 8, becomes -5

Line 15: index2 = index2 + 1;

Line 15: index2 = 1 + 1;

Line 15: index2 = 2;

Line 13: while (index2 < index1 ){

Line 13: while (2 < 7 ){){

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

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[7] = b[2 - 1] + myArray[2] - 7;

Line 14: myArray[7] = b[1] + 0 - 7;

Line 14: myArray[7] = 2 + 0 - 7;

Line 14: myArray[7] = 2 - 7;

Line 14: myArray[7] = -5;

myArray[7] was -5, becomes -5

Line 15: index2 = index2 + 1;

Line 15: index2 = 2 + 1;

Line 15: index2 = 3;

Line 13: while (index2 < index1 ){

Line 13: while (3 < 7 ){){

3 is less than 7, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[7] = b[3 - 1] + myArray[3] - 7;

Line 14: myArray[7] = b[2] + -1 - 7;

Line 14: myArray[7] = 0 + -1 - 7;

Line 14: myArray[7] = -1 - 7;

Line 14: myArray[7] = -8;

myArray[7] was -5, becomes -8

Line 15: index2 = index2 + 1;

Line 15: index2 = 3 + 1;

Line 15: index2 = 4;

Line 13: while (index2 < index1 ){

Line 13: while (4 < 7 ){){

4 is less than 7, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[7] = b[4 - 1] + myArray[4] - 7;

Line 14: myArray[7] = b[3] + -5 - 7;

Line 14: myArray[7] = -1 + -5 - 7;

Line 14: myArray[7] = -6 - 7;

Line 14: myArray[7] = -13;

myArray[7] was -8, becomes -13

Line 15: index2 = index2 + 1;

Line 15: index2 = 4 + 1;

Line 15: index2 = 5;

Line 13: while (index2 < index1 ){

Line 13: while (5 < 7 ){){

5 is less than 7, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[7] = b[5 - 1] + myArray[5] - 7;

Line 14: myArray[7] = b[4] + -11 - 7;

Line 14: myArray[7] = -5 + -11 - 7;

Line 14: myArray[7] = -16 - 7;

Line 14: myArray[7] = -23;

myArray[7] was -13, becomes -23

Line 15: index2 = index2 + 1;

Line 15: index2 = 5 + 1;

Line 15: index2 = 6;

Line 13: while (index2 < index1 ){

Line 13: while (6 < 7 ){){

6 is less than 7, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[7] = b[6 - 1] + myArray[6] - 7;

Line 14: myArray[7] = b[5] + -22 - 7;

Line 14: myArray[7] = -11 + -22 - 7;

Line 14: myArray[7] = -33 - 7;

Line 14: myArray[7] = -40;

myArray[7] was -23, becomes -40

Line 15: index2 = index2 + 1;

Line 15: index2 = 6 + 1;

Line 15: index2 = 7;

Line 13: while (index2 < index1 ){

Line 13: while (7 < 7 ){){

7 is NOT less than 7, condition false, going outside of 2nd while...

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[7]);

Line 17: System.out.println(-40);

-40

Line 18: index1 = index1 + 1;

Line 18: index1 = 7 + 1;

Line 18: index1 = 8;

Line 10: while (index1 < 10){

Line 10: while (8 < 10){

8 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 9;

Line 11: myArray[8] = 9;

myArray[8] was 0, now becomes 9

Line 12: index2 = 1;

index2 was 7, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 8 ){){

1 is less than 8, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[8] = b[1 - 1] + myArray[1] - 8;

Line 14: myArray[8] = b[0] + 2 - 8;

Line 14: myArray[8] = 0 + 2 - 8;

Line 14: myArray[8] = 2 - 8;

Line 14: myArray[8] = -6;

myArray[8] was 9, becomes -6

Line 15: index2 = index2 + 1;

Line 15: index2 = 1 + 1;

Line 15: index2 = 2;

Line 13: while (index2 < index1 ){

Line 13: while (2 < 8 ){){

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

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[8] = b[2 - 1] + myArray[2] - 8;

Line 14: myArray[8] = b[1] + 0 - 8;

Line 14: myArray[8] = 2 + 0 - 8;

Line 14: myArray[8] = 2 - 8;

Line 14: myArray[8] = -6;

myArray[8] was -6, becomes -6

Line 15: index2 = index2 + 1;

Line 15: index2 = 2 + 1;

Line 15: index2 = 3;

Line 13: while (index2 < index1 ){

Line 13: while (3 < 8 ){){

3 is less than 8, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[8] = b[3 - 1] + myArray[3] - 8;

Line 14: myArray[8] = b[2] + -1 - 8;

Line 14: myArray[8] = 0 + -1 - 8;

Line 14: myArray[8] = -1 - 8;

Line 14: myArray[8] = -9;

myArray[8] was -6, becomes -9

Line 15: index2 = index2 + 1;

Line 15: index2 = 3 + 1;

Line 15: index2 = 4;

Line 13: while (index2 < index1 ){

Line 13: while (4 < 8 ){){

4 is less than 8, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[8] = b[4 - 1] + myArray[4] - 8;

Line 14: myArray[8] = b[3] + -5 - 8;

Line 14: myArray[8] = -1 + -5 - 8;

Line 14: myArray[8] = -6 - 8;

Line 14: myArray[8] = -14;

myArray[8] was -9, becomes -14

Line 15: index2 = index2 + 1;

Line 15: index2 = 4 + 1;

Line 15: index2 = 5;

Line 13: while (index2 < index1 ){

Line 13: while (5 < 8 ){){

5 is less than 8, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[8] = b[5 - 1] + myArray[5] - 8;

Line 14: myArray[8] = b[4] + -11 - 8;

Line 14: myArray[8] = -5 + -11 - 8;

Line 14: myArray[8] = -16 - 8;

Line 14: myArray[8] = -24;

myArray[8] was -14, becomes -24

Line 15: index2 = index2 + 1;

Line 15: index2 = 5 + 1;

Line 15: index2 = 6;

Line 13: while (index2 < index1 ){

Line 13: while (6 < 8 ){){

6 is less than 8, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[8] = b[6 - 1] + myArray[6] - 8;

Line 14: myArray[8] = b[5] + -22 - 8;

Line 14: myArray[8] = -11 + -22 - 8;

Line 14: myArray[8] = -33 - 8;

Line 14: myArray[8] = -41;

myArray[8] was -24, becomes -41

Line 15: index2 = index2 + 1;

Line 15: index2 = 6 + 1;

Line 15: index2 = 7;

Line 13: while (index2 < index1 ){

Line 13: while (7 < 8 ){){

7 is less than 8, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[8] = b[7 - 1] + myArray[7] - 8;

Line 14: myArray[8] = b[6] + -40 - 8;

Line 14: myArray[8] = -22 + -40 - 8;

Line 14: myArray[8] = -62 - 8;

Line 14: myArray[8] = -70;

myArray[8] was -41, becomes -70

Line 15: index2 = index2 + 1;

Line 15: index2 = 7 + 1;

Line 15: index2 = 8;

Line 13: while (index2 < index1 ){

Line 13: while (8 < 8 ){){

8 is NOT less than 8, condition false, going outside of 2nd while...

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[8]);

Line 17: System.out.println(-70);

-70

Line 18: index1 = index1 + 1;

Line 18: index1 = 8 + 1;

Line 18: index1 = 9;

Line 10: while (index1 < 10){

Line 10: while (9 < 10){

9 is less than 10, condition true, going inside of 1st while...

Line 11: myArray[index1] = index1 + 1;

Line 11: myArray[index1] = 10;

Line 11: myArray[9] = 10;

myArray[9] was 0, now becomes 10

Line 12: index2 = 1;

index2 was 8, now becomes 1

Line 13: while (index2 < index1 ){

Line 13: while (1 < 9 ){){

1 is less than 9, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[9] = b[1 - 1] + myArray[1] - 9;

Line 14: myArray[9] = b[0] + 2 - 9;

Line 14: myArray[9] = 0 + 2 - 9;

Line 14: myArray[9] = 2 - 9;

Line 14: myArray[9] = -7;

myArray[9] was 10, becomes -7

Line 15: index2 = index2 + 1;

Line 15: index2 = 1 + 1;

Line 15: index2 = 2;

Line 13: while (index2 < index1 ){

Line 13: while (2 < 9 ){){

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

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[9] = b[2 - 1] + myArray[2] - 9;

Line 14: myArray[9] = b[1] + 0 - 9;

Line 14: myArray[9] = 2 + 0 - 9;

Line 14: myArray[9] = 2 - 9;

Line 14: myArray[9] = -7;

myArray[9] was -7, becomes -7

Line 15: index2 = index2 + 1;

Line 15: index2 = 2 + 1;

Line 15: index2 = 3;

Line 13: while (index2 < index1 ){

Line 13: while (3 < 9 ){){

3 is less than 9, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[9] = b[3 - 1] + myArray[3] - 9;

Line 14: myArray[9] = b[2] + -1 - 9;

Line 14: myArray[9] = 0 + -1 - 9;

Line 14: myArray[9] = -1 - 9;

Line 14: myArray[9] = -10;

myArray[9] was -7, becomes -10

Line 15: index2 = index2 + 1;

Line 15: index2 = 3 + 1;

Line 15: index2 = 4;

Line 13: while (index2 < index1 ){

Line 13: while (4 < 9 ){){

4 is less than 9, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[9] = b[4 - 1] + myArray[4] - 9;

Line 14: myArray[9] = b[3] + -5 - 9;

Line 14: myArray[9] = -1 + -5 - 9;

Line 14: myArray[9] = -6 - 9;

Line 14: myArray[9] = -15;

myArray[9] was -10, becomes -15

Line 15: index2 = index2 + 1;

Line 15: index2 = 4 + 1;

Line 15: index2 = 5;

Line 13: while (index2 < index1 ){

Line 13: while (5 < 9 ){){

5 is less than 9, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[9] = b[5 - 1] + myArray[5] - 9;

Line 14: myArray[9] = b[4] + -11 - 9;

Line 14: myArray[9] = -5 + -11 - 9;

Line 14: myArray[9] = -16 - 9;

Line 14: myArray[9] = -25;

myArray[9] was -15, becomes -25

Line 15: index2 = index2 + 1;

Line 15: index2 = 5 + 1;

Line 15: index2 = 6;

Line 13: while (index2 < index1 ){

Line 13: while (6 < 9 ){){

6 is less than 9, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[9] = b[6 - 1] + myArray[6] - 9;

Line 14: myArray[9] = b[5] + -22 - 9;

Line 14: myArray[9] = -11 + -22 - 9;

Line 14: myArray[9] = -33 - 9;

Line 14: myArray[9] = -42;

myArray[9] was -25, becomes -42

Line 15: index2 = index2 + 1;

Line 15: index2 = 6 + 1;

Line 15: index2 = 7;

Line 13: while (index2 < index1 ){

Line 13: while (7 < 9 ){){

7 is less than 9, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[9] = b[7 - 1] + myArray[7] - 9;

Line 14: myArray[9] = b[6] + -40 - 9;

Line 14: myArray[9] = -22 + -40 - 9;

Line 14: myArray[9] = -62 - 9;

Line 14: myArray[9] = -71;

myArray[9] was -42, becomes -71

Line 15: index2 = index2 + 1;

Line 15: index2 = 7 + 1;

Line 15: index2 = 8;

Line 13: while (index2 < index1 ){

Line 13: while (8 < 9 ){){

8 is less than 9, condition true, going inside of 2nd while...

Line 14: myArray[index1] = b[index2 - 1] + myArray[index2] - index1;

Line 14: myArray[9] = b[8 - 1] + myArray[8] - 9;

Line 14: myArray[9] = b[7] + -70 - 9;

Line 14: myArray[9] = -40 + -70 - 9;

Line 14: myArray[9] = -110 - 9;

Line 14: myArray[9] = -119;

myArray[9] was -71, becomes -119

Line 15: index2 = index2 + 1;

Line 15: index2 = 8 + 1;

Line 15: index2 = 9;

Line 13: while (index2 < index1 ){

Line 13: while (9 < 9 ){){

9 is NOT less than 9, condition false, going outside of 2nd while...

Line 17: System.out.println(myArray[index2]);

Line 17: System.out.println(myArray[9]);

Line 17: System.out.println(-119);

-119

Line 18: index1 = index1 + 1;

Line 18: index1 = 9 + 1;

Line 18: index1 = 10;

Line 10: while (index1 < 10){

Line 10: while (10 < 10){

10 is NOT less than 10, condition false, going outside of first while...