

CSE110 Assignment 6

1D Array Tracings

1. Consider the following code:

public class ArrayTraceA
{
public static void main(String args[])
{
int [] myArray = new int[10];
int index1 = 0, index2 = 0;
index1 = 1;
while (index1 < 10){
myArray[index1] = index1 + 3;
index2 = 1;
while (index2 < index1) {
myArray[index1] = myArray[index1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index1]);
index1 = index1 + 1;
}
}

What is the output?

2. Consider the following code:

public class ArrayTraceB
{
public static void main(String args[])
{
int [] myArray = new int[10];
int index1 = 0, index2 = 0;
index1 = 1;
while (index1 < 10){
myArray[index1] = index1 + 4;
index2 = 1;
while (index2 < index1) {
myArray[index1] = myArray[index1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index1]);
index1 = index1 + 1;
}
}

What is the output?

3. Consider the following code:

public class Quiz5a
{
public static void main(String args[])
{
int [] myArray = new int[10];
int [] b;
int index1 = 0, index2 =0;
index1 = 1;
b = myArray;
while (index1 < 10){
myArray[index1] = index1 + 2;
index2 = 1;
while (index2 < index1){
myArray[index1] = b[index1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index1]);
index1 = index1 + 1;
}
}
}

What is the output of the program?

4.Consider the following code:

public class Quiz5b
{
public static void main(String args[])
{
int [] myArray = new int[10];
int [] b;
int index1 = 0, index2 =0;
index1 = 1;
b = myArray;
while (index1 < 10){
myArray[index1] = index1 + 4;
index2 = 1;
while (index2 < index1){
myArray[index1] = b[index1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index1]);
index1 = index1 + 1;
}
}
}

What is the output?

5. Consider the following code:

```
public class ArrayTraceA
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int index1 = 0, index2 = 0;
        index1 = 1;
        while (index1 < 10){
            myArray[index1] = index1 + 3;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = myArray[index1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index1]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output?

6. Consider the following code:

```
public class ArrayTraceB
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int index1 = 0, index2 = 0;
        index1 = 1;
        while (index1 < 10){
            myArray[index1] = index1 + 4;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = myArray[index1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index1]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output?

7. Consider the following code:

public class Quiz5a
{
public static void main(String args[])
{
int [] myArray = new int[10];
int [] b;
int index1 = 0, index2 =0;
index1 = 1;
b = myArray;
while (index1 < 10){
myArray[index1] = index1 + 1;
index2 = 1;
while (index2 < index1){
myArray[index1] = b[index2 - 1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index2]);
index1 = index1 + 1;
}
}
}

What is the output of the program?

8. Consider the following code:

public class Quiz5b
{
public static void main(String args[])
{
int [] myArray = new int[10];
int [] b;
int index1 = 0, index2 =0;
index1 = 1;
b = myArray;
while (index1 < 10){
myArray[index1] = index1 + 3;
index2 = 1;
while (index2 < index1){
myArray[index1] = b[index2 - 1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index2]);
index1 = index1 + 1;
}
}
}

What is the output of the program?

9. Consider the following code:

```
public class Quiz5a
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int [] b;
        int index1 = 0, index2 =0;
        index1 = 1;
        b = myArray;
        while (index1 < 10){
            myArray[index1] = index1 + 2;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = b[index1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index1]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output of the program?

10.

Consider the following code:

```
public class Quiz5b
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int [] b;
        int index1 = 0, index2 =0;
        index1 = 1;
        b = myArray;
        while (index1 < 10){
            myArray[index1] = index1 + 4;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = b[index1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index1]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output of the program?

11. Consider the following code:

```
public class Quiz5a
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int [] b;
        int index1 = 0, index2 =0;
        index1 = 1;
        b = myArray;
        while (index1 < 10){
            myArray[index1] = index1 + 2;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = b[index1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index1]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output of the program?

12. Consider the following code:

```
public class Quiz5b
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int [] b;
        int index1 = 0, index2 =0;
        index1 = 1;
        b = myArray;
        while (index1 < 10){
            myArray[index1] = index1 + 4;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = b[index1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index1]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output of the program?

13 Consider the following code:

public class Quiz5a
{
public static void main(String args[])
{
int [] myArray = new int[10];
int [] b;
int index1 = 0, index2 =0;
index1 = 1;
b = myArray;
while (index1 < 10){
myArray[index1] = index1 + 1;
index2 = 1;
while (index2 < index1){
myArray[index1] = b[index2 - 1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index2]);
index1 = index1 + 1;
}
}
}

What is the output of the program?

14. Consider the following code:

public class Quiz5b
{
public static void main(String args[])
{
int [] myArray = new int[10];
int [] b;
int index1 = 0, index2 =0;
index1 = 1;
b = myArray;
while (index1 < 10){
myArray[index1] = index1 + 3;
index2 = 1;
while (index2 < index1){
myArray[index1] = b[index2 - 1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index2]);
index1 = index1 + 1;
}
}
}

What is the output of the program?

15. Consider the following code:

public class ArrayTraceA
{
public static void main(String args[])
{
int [] myArray = new int[10];
int index1 = 0, index2 =0;
index1 = 1;
while (index1 < 10){
myArray[index1] = index1 + 3;
index2 = 1;
while (index2 < index1){
myArray[index1] = myArray[index1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index1]);
index1 = index1 + 1;
}
}
}

What is the output?

16. Consider the following code:

public class ArrayTraceB
{
public static void main(String args[])
{
int [] myArray = new int[10];
int index1 = 0, index2 =0;
index1 = 1;
while (index1 < 10){
myArray[index1] = index1 + 4;
index2 = 1;
while (index2 < index1){
myArray[index1] = myArray[index1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index1]);
index1 = index1 + 1;
}
}
}

What is the output?

17. Consider the following code:

```
public class ArrayTraceA
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int index1 = 0, index2 =0;
        index1 = 1;
        while (index1 < 10){
            myArray[index1] = index1 + 3;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = myArray[index1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index1]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output?

18. Consider the following code:

```
public class ArrayTraceB
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int index1 = 0, index2 =0;
        index1 = 1;
        while (index1 < 10){
            myArray[index1] = index1 + 4;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = myArray[index1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index1]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output?

19. Consider the following code:

public class Quiz5a
{
public static void main(String args[])
{
int [] myArray = new int[10];
int [] b;
int index1 = 0, index2 =0;
index1 = 1;
b = myArray;
while (index1 < 10){
myArray[index1] = index1 + 2;
index2 = 1;
while (index2 < index1){
myArray[index1] = b[index1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index1]);
index1 = index1 + 1;
}
}
}

What is the output of the program?

20.Consider the following code:

public class ArrayTraceB
{
public static void main(String args[])
{
int [] myArray = new int[10];
int index1 = 0, index2 =0;
index1 = 1;
while (index1 < 10){
myArray[index1] = index1 + 4;
index2 = 1;
while (index2 < index1){
myArray[index1] = myArray[index1] + myArray[index2] - index1;
index2 = index2 + 1;
}
System.out.println(myArray[index1]);
index1 = index1 + 1;
}
}
}

What is the output?

21.Consider the following code:

```
public class Quiz5a
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int [] b;
        int index1 = 0, index2 =0;
        index1 = 1;
        b = myArray;
        while (index1 < 10){
            myArray[index1] = index1 + 1;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = b[index2 - 1] + myArray[index2] - index1;
                index2 = index2 + 1;
            }
            System.out.println(myArray[index2]);
            index1 = index1 + 1;
        }
    }
}
```

What is the output of the program?

22.Consider the following code:

```
public class Quiz5a
{
    public static void main(String args[])
    {
        int [] myArray = new int[10];
        int [] b;
        int index1 = 0, index2 =0;
        index1 = 1;
        b = myArray;
        while (index1 < 10){
            myArray[index1] += myArray[index2%10]+ 2;
            index2 = 1;
            while (index2 < index1 ){
                myArray[index1] = b[index2%7] - index1;
                index2 = (index2++) + 1;
            }
            System.out.println(myArray[index1]);
            index1 = (++index1) + 1;
        }
    }
}
```

What is the output of the program?