**Homework #3:**

**1)**

public class Array-Assignment {

public static void main(String [] args) {

int [] x = new int[3];

int [] y = {1, 3, 5, 9};

x[2] = y[3];

x[0]++;

y[1] += y[2] - y[0];

int [] z = x;

x = y;

x[1] = 4;

}

}

x, y, z?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X | 1 | 4 | 5 | 9 |
| Y | 1 | 4 | 5 | 9 |
| Z | 1 | 0 | 9 |  |

**2)**

public class Array-Length {

public static void main(String [] args) {

int [] x = new int[0];

int [] y = {};

int [] z = {0};

}

}

x, y, z?

|  |  |
| --- | --- |
| X |  |
| Y |  |
| Z | 0 |

**3)**

public class Array-With-Loop1 {

public static void main(String [] args) {

int [] x = {-4, 3, 8, 2, -5, 1};

for(int i=1; i<x.length; i++) {

x[i] += x[i-1]; // notice: += instead of =

}

}

}

x?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| X | -4 | -1 | 7 | 9 | 4 | 5 |

**4)**

public class Array-With-Loop2 {

public static void main(String [] args) {

int [] x = {-4, 3, 8, 2, -5, 1};

for(int i=1; i<x.length; i++) {

x[i] = x[i-1];

}

}

}

x?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| X | -4 | -4 | -4 | -4 | -4 | -4 |