Lab Goal: This lab was designed to teach you more about nested loops and matrices.

Lab Description: Create a grid of random values. Pass in an array of values and randomly load the values into the grid. Use math.random() to load the values into the matrix. Search the grid to see how many of a certain value exist in the grid. Return the largest group found out of the specified search values.

Sample Output:

```
a 7 a x a x x x a c b x a 7 a a 7 a x 2
9 x b 7 c 7 9 a 9 2 c 9 b a 7 x 9 9 a c
c x 2 7 c 2 b b c x 9 a 7 7 7 x x b x x
7 x 7 9 b a c a 2 2 7 9 x b 7 a c c c c
a a 7 a a 9 9 b 2 2 a b 7 2 x a 7 2 x a
7 b x a 9 c a 2 9 2 9 a b c 2 9 a b 9 9
9 x c b 9 c c c x c 9 x 7 b a c 2 7 b b
2 9 x c 7 c x b c b c 7 2 7 2 2 b 9 x 9
x x 2 x a c 7 b b 7 2 2 2 x c 7 c 2 2 x
9 x 2 x 7 a b x b x 2 9 c x 2 7 b b b a
a 9 7 c c 9 b b b x a b b x c c 2 c 7
c 9 7 a 7 a x b a c a 9 2 2 2 x a c 7 a
axc7xba7xacx9xacaccb
9 a c 7 b a 7 c b a 7 2 2 a c b b 7 7 b
9 a 2 2 2 c 9 9 c b 7 b 2 c b c 2 7 a a
9 c x b a a a b c x 7 9 b x a c 7 a a 2
c a a 7 7 a 7 x b b 2 c b 2 7 x 7 2 2 a
7 x 7 c 7 c x 9 7 a b c 7 7 b a 7 b 2 x
c 9 9 x b b a b a b a 9 2 b x 2 x x 9 b
accc72cxbx79aab22a9a
```

--debugging code to help see if the algorithm is working--these println statements can be added to the max method-a count is 70
b count is 60
c count is 61
7 count is 58
9 count is 43
x count is 58
2 count is 50

```
      a
      9
      2
      2
      b
      a
      9
      a
      b
      7

      a
      2
      b
      x
      a
      9
      7
      c
      2
      a

      b
      2
      2
      x
      c
      a
      2
      b
      9
      7

      9
      9
      b
      9
      7
      9
      x
      x
      x
      c

      b
      x
      b
      a
      9
      2
      c
      x
      x
      7

      b
      2
      a
      a
      9
      c
      c
      x
      b
      b

      b
      2
      7
      x
      2
      9
      c
      7
      9
      x

      7
      b
      c
      9
      x
      2
      2
      x
      7
      7

      c
      a
      c
      x
      7
      x
      a
      2
      9
      b
      b

      9
      2
      c
      x
      x
      9
      b
      2
      x
      b
```

x occurs the most.

a occurs the most.

Files Needed ::

Grid.java GridRunner.java