

Lab Goal : This lab was designed to review basic class creation, method creation, matrices, nested loops, and searching.

Lab Description : Write a class that will randomly load a matrix with integer values that range from 1 to an upper bound, inclusive of the upper bound. Write methods to count the odds, evens, and primes.

Sample Data :

20, 20, 25
10, 10, 50
7, 7, 100

Sample Output :

```

 9 16  4 24 23 22  6 13 20 19 22 22 19  7  8
 1 10 10  8 17 21 15 20 25  6 22  2 23 15  3
14 12 13  9 20 25  4  1 11 10 16 12  4 17  8
15  6  8 19 22 16 23  8 19  6 19 15 14  4  2
21 15 24 25 16 15 14  1 18  6  6 13 22 15 24
23  1  5  9 21  8 11 12  4 10 23 19 19 13 17
11  4 18  2 23  5 17  3 10  6  3  4 15  2 15
16 13 21  5 24  2 20 13  7 25 18  2  1 14 21
16 25 23 20  8  3 15 13  3  3  5  4 16 19 10
 7  9 21  4 19 24 10  3  9 10 18  9 13 11 19
15 20 16 14 21 10 23  1  8 21 14  1 25 16 13
20  9  5 22  7 22 21  8 16 17 11 15 12 12 13
21 11  3  3 16 10 24  7  9 22 10 21 25  1 14
10 19 14 25  8 19 22  5 12 21  9 20 22 11 25
 2 25  3 12  6  4 13  6 20 22 15 11 11  3 16

```

Odd count = 119
Even count = 106
Prime count = 82

Files Needed ::

MatrixSearch.java
MatrixSearchRunner.java

```

20 46 21 33  9 14 42 15 28  9
25  8 44 13 21 26 14  6 10 15
17 44 48  7  3 21 17 14  6 21
21 49 35 46 23 47 17 29 42 45
 5 24 45 38 29 24 14 50  2  9
41 42  2  2 14 39 37 11 15 37
19 43  1 14 34 12 22 47 24 12
 6 38 41 21 32  7 38 20 34 32
16 37 39 15 42 47  1 22 24 25
 3 32 47  1 14 22 13 37 26 42

```

Odd count = 51
Even count = 49
Prime count = 32

```

65 10 73 42 69 23 24
28 86 79 82 54 46 52
11 63 88 20 69 28 93
35 84 89 22  4  1 53
83  2 49 61 46 95 72
62 69 32 77 49 54 73
39 58 15 10 65 68 58

```

```
Odd count = 24  
Even count = 25  
Prime count = 11
```