Test case 1 – Mean output

Input matrix 8*8

```
File Edit Format View Help

1.5 2.5 4 55 6 7 8 9

2 3 4 5 11 12.5 3.2 1

1 2 3 4 5 6 7 8

11 12 13 14.5 15 16 7 8

22 11.5 13.4 25.1 5 6 7 8

1 2 3 4 5 6 7 8

7 3 12.5 4.1 1 2 3 8

55 11 125.1 3 8 4 6 1
```

Level 1 output

```
The size of the matrix is a square of type = 8

Please choose the level (1,2,3,....)

Maximum Level can be generated is: 4

Valid Level

Please choose (1) for Mean or (2) for Median

1

out - Notepad

File Edit Format View Help
```

File Edit Format View Help

1.50 2.50 4.00 55.00 6.00 7.00 8.00 9.00

2.00 3.00 4.00 5.00 11.00 12.50 3.20 1.00

1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00

11.00 12.00 13.00 14.50 15.00 16.00 7.00 8.00

22.00 11.50 13.40 25.10 5.00 6.00 7.00 8.00

1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00

7.00 3.00 12.50 4.10 1.00 2.00 3.00 8.00

55.00 11.00 125.10 3.00 8.00 4.00 6.00 1.00

Level 2 mean output

```
The size of the matrix is a square of type = 8
Please choose the level (1,2,3,...)

Maximum Level can be generated is: 4
Valid Level
Please choose (1) for Mean or (2) for Median
1
```

```
out - Notepad

File Edit Format View Help

2.25 10.75 9.18 4.90

6.50 8.68 10.50 7.50

10.56 10.03 5.50 7.50

14.00 21.96 3.12 3.25
```

Level 3 mean output

```
out - Notepad
File Edit Format View Help
7.83 7.86
13.07 5.07
```

Level 4 mean output

```
out - Notepad

File Edit Format View Help

7.46
```

Level 5 and higher output

```
The size of the matrix is a square of type = 8
Please choose the level (1,2,3,....)

Maximum Level can be generated is: 4
Invalid Level, Please try again by re-running the program again
```

Test case 1 – median output

Level 2 median output

```
The size of the matrix is a square of type = 8
Please choose the level (1,2,3,...)

Maximum Level can be generated is: 4
Valid Level
Please choose (1) for Mean or (2) for Median
2
```

```
out - Notepad

File Edit Format View Help

2.25 4.50 9.00 5.60

6.50 8.50 10.50 7.50

6.75 8.70 5.50 7.50

9.00 8.30 3.00 4.50
```

Level 3 median output

```
out - Notepad
File Edit Format View Help
5.50 8.25
8.50 5.00
```

Level 4 median output

```
out - Notepad

File Edit Format View Help

6.87
```

Level 5 or higher output

```
The size of the matrix is a square of type = 8

Please choose the level (1,2,3,....)

5

Maximum Level can be generated is: 4

Invalid Level, Please try again by re-running the program again
```

Test case 2:

Input matrix 16*16

```
file - Notepad
File Edit Format View Help
1.5 2.5 4 55 6 7 8 9 2 3 4 5 11 12.5 3.2 1
1 2 3 4 5 6 7 8 11 12 13 14.5 15 16 7 8
22 11.5 13.4 25.1 5 6 7 8 1 2 3 4 5 6 7 8
7 3 12.5 4.1 1 2 3 8 55 11 125.1 3 8 4 6 1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1.5 11 12 13 1 5 6 7 8 9 5 0.5 17 6 7 1
2 4 5 8 9 7 1.4 2.1 8.6 12.3 11 16 15 14 12 1
22 11.5 13.4 25.1 5 6 7 8 1 2 3 4 5 6 7 8
7 3 12.5 4.1 1 2 3 8 55 11 125.1 3 8 4 6 1
1.5 2.5 4 55 6 7 8 9 2 3 4 5 11 12.5 3.2 1
4.1 1.2 45 78 13 15 17 12 9 4 1 2 3 7 9 1.3
22 11.5 13.4 25.1 5 6 7 8 1 2 3 4 5 6 7 8
7 3 12.5 4.1 1 2 3 8 55 11 125.1 3 8 4 6 1
7 3 12.5 4.1 1 2 3 8 55 11 125.1 3 8 4 6 1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
16 14 15 13 12 8 9 10 11 7 8 1 2 3 6 4
```

1- Level 2 mean output

```
The size of the matrix is a square of type = 16
Please choose the level (1,2,3,....)

Maximum Level can be generated is: 5
Valid Level
Please choose (1) for Mean or (2) for Median
1
```

```
output - Notepad

File Edit Format View Help

1.75 10.25 6.00 8.00 7.00 9.18 13.56 5.20

11.68 11.26 3.50 7.00 11.62 18.38 5.12 4.75

4.93 8.00 4.62 7.00 9.00 6.43 11.00 8.87

8.31 13.96 7.12 4.66 5.63 8.00 10.25 8.50

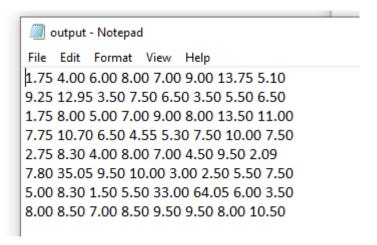
4.12 26.32 4.00 6.50 23.37 49.66 9.56 3.15

8.75 37.71 9.62 11.75 4.75 2.50 4.87 7.41

5.00 8.29 1.50 5.50 33.00 64.05 6.00 3.50

7.87 8.37 7.12 8.50 8.62 7.00 8.00 9.87
```

2- level 2 median output



3- level 3 median output

