

Worksheet 28

Sparse Matrices

Write a Java main program which uses the Triplet algorithm to reduce the size of the sparse matrix in fig 1.

To learn the Triplet algorithm, watch the video below.

Ref: <https://www.youtube.com/watch?v=4MoSrMkWovM&feature=youtu.be>

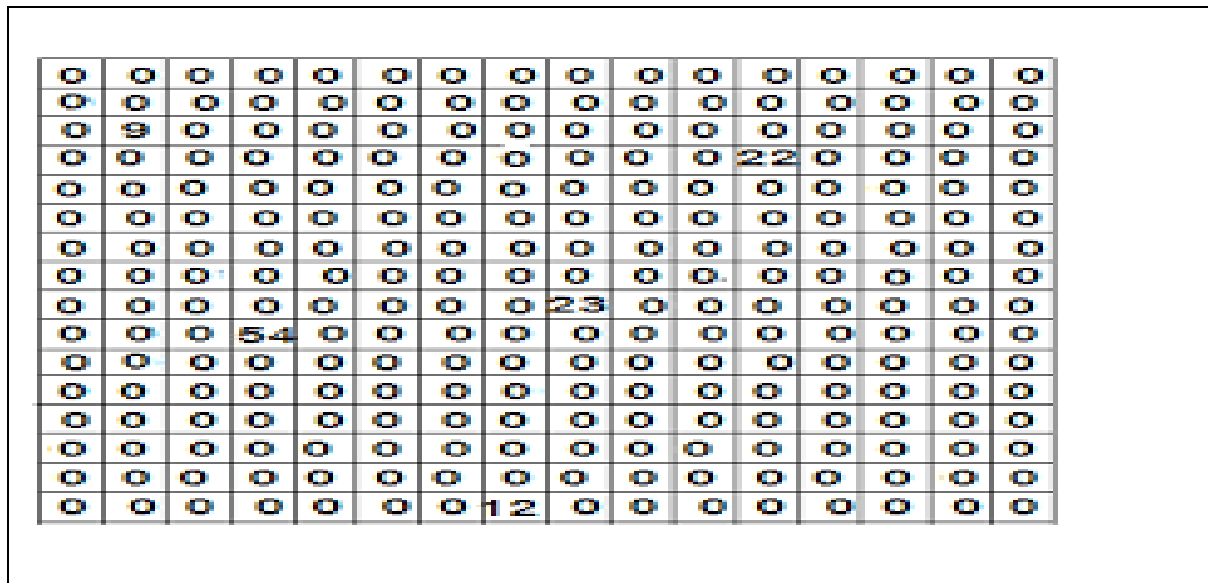


Fig 1. A sparse matrix

Sample Session

| The Triplet | | |
|-------------|----|----|
| 16 | 16 | 5 |
| 2 | 1 | 9 |
| 3 | 11 | 22 |
| 8 | 8 | 23 |
| 9 | 3 | 54 |
| 15 | 7 | 12 |