```
void setZeroes(int** matrix, int matrixSize, int* matrixColSize) {
          int row;
          int col;
          int index;
          int base_row;
          int base col;
          base_row = INT_MAX;
base_col = INT_MAX;
          for(row = 0; row < matrixSize ; row++)</pre>
                     for(col = 0; col < matrixColSize[row]; col++)</pre>
                                 if ( matrix[row][col] == 0 &&
                                            (base_row == INT_MAX || base_row != row) &&
(base_col == INT_MAX || base_col != col)
                                            if (base_row == INT_MAX)
                                                      base_row = row;
                                                      base_col = col;
for(index = 0; index < matrixColSize[row]; index++)</pre>
                                                                  matrix[base_row][index] = ( matrix[base_row][index] == 0 ) ? 1 : 0;//first zero have zero
                                                      for(index = 0; index < matrixSize; index++)</pre>
                                                                  matrix[index][base\_col] = ( matrix[index][base\_col] == 0 ) ? 1 : 0; //first zero have zero for the state of the state of
                                           matrix[base_row][col] = 1;
                                           matrix[row][base_col] = 1;
                    }
         }
          if (base_col != INT_MAX)
                     for(row = 0; row < matrixSize ; row++)</pre>
                                if (matrix[row][base_col] == 1)
                                            for(col = 0; col < matrixColSize[row]; col++)</pre>
                                                       if(row == base_row || col == base_col)///first zero need to judge overwrite
                                                              if( matrix[row][col] != 1 )//first zero don't overwrite reset flag
                                                                          matrix[row][col] = 0;
                                                       }else//just write
                                                                matrix[row][col] = 0;
                             }
          }
          if (base_row != INT_MAX)
                     for(col = 0; col < matrixColSize[0] ; col++)</pre>
                                 if (matrix[base_row][col] == 1)
                                            for(row = 0; row < matrixSize; row++)</pre>
                                                     matrix[row][col] = 0;
```