```
clear all;
clear;
clc;

A= load('A.txt'); % load matrix A
b= ones(size(A,1),1); % Initialize vector b
roll=39;
b=b*(roll+2);

%%%% Jacobi Method
fprintf('For Jacobi method: \n\n');
y= jacobi_method(A,b);
fprintf('x:\n');
disp(y);

%%%% Gauss Seidel Method
fprintf('For Gauss Seidel method: \n\n');
x= gauss_seidel(A,b);
fprintf('x:\n');
disp(x);
fprintf('A*x=\n');
disp(A*x);

%%%% Gauss Elimination Method
fprintf('For Gauss Elimination method: \n\n');
z= Gauss_elimination(A,b);
z= z.';
fprintf('x:\n');
disp(z);
fprintf('A*x=\n');
disp(A*z);
```

```
For Jacobi method:

No. of operations: 594645
x:
   NaN
   NaN
   NaN
   NaN
   NaN
   NaN
   NaN
   NaN
   NaN
   NaN
   Inf
  -Inf
   Inf
  -Inf
   Inf
```

For Gauss Seidel method:

```
No. of operations: 70724910
x:
   1.0e+05 *

    0.0123
    0.0676
    0.1603
    0.2849
    0.4366
    0.6109
    0.8036
    1.0111
    1.2300
    1.4575
    1.6912
    1.9290
    2.1693
    2.4108
    2.6527

A*x=
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
```

For Gauss Elimination method:

```
No. of operation = 2570
x:
   1.0e+05 *

    0.0123
    0.0677
    0.1603
    0.2850
    0.4367
    0.6109
    0.8036
    1.0111
    1.2300
```

```
    1.4576
    1.6913
    1.9291
    2.1693
    2.4108
    2.6527

A*x=
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
   41.0000
```

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