
```
A = load("A.txt");
n = size(A)% getting the size of matrix A
b = zeros(15,1);% initialising values of b vector
for i = 1:15
    b(i)= 40;
end
guessX = zeros(15,1); % guess value
gaussSeidel(A,b,guessX) % result using gauss Seidel
jacobi(A,b,guessX) % result using jacobi's iteration method
GEM(A,b) % result using Gauss elimination
```

```
n =
```

```
15      15
```

```
"Operation count for gauss seidel method 70724910"
```

```
ans =
```

```
1.0e+05 *
```

```
0.0120
```

```
0.0660
```

```
0.1564
```

```
0.2780
```

```
0.4260
```

```
0.5960
```

```
0.7840
```

```
0.9864
```

```
1.2000
```

```
1.4220
```

```
1.6500
```

```
1.8820
```

```
2.1164
```

```
2.3520
```

```
2.5880
```

```
"Operation count for jacobi iteration method 594645"
```

```
ans =
```

```
NaN
```

```
NaN
```

```
NaN
```

```
NaN
```

```
NaN
```

```
NaN
```

```
NaN
```

```
NaN
```

```
NaN
```

```

NaN
NaN
Inf
-Inf
Inf
-Inf
Inf

No. of operations in Gauss elimination
    2345

No. of operations in back-substitution
    225

ans =

    1.0e+05 *

Columns 1 through 7

    0.0120    0.0660    0.1564    0.2780    0.4260    0.5960    0.7840

Columns 8 through 14

    0.9864    1.2000    1.4220    1.6500    1.8820    2.1164    2.3520

Column 15

    2.5880

```

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