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- Program name
- output

note: I am not responsible for any mistakes in this document

1. Addition, Subtraction of Matrices

OUTPUT:

```
Enter the size of the matrices (m x n):
3 3
Enter Matrix A of order 3X3:
1 -3 2
2 1 -3
4 -1 3
Enter Matrix B of order 3X3:
2 -2 -4
-1 3 4
1 -2 3
A + B =
3       -5      -2
1       4       1
5       -3      6
A - B =
-1      -1      6
3       -2      -7
3       1       0
```

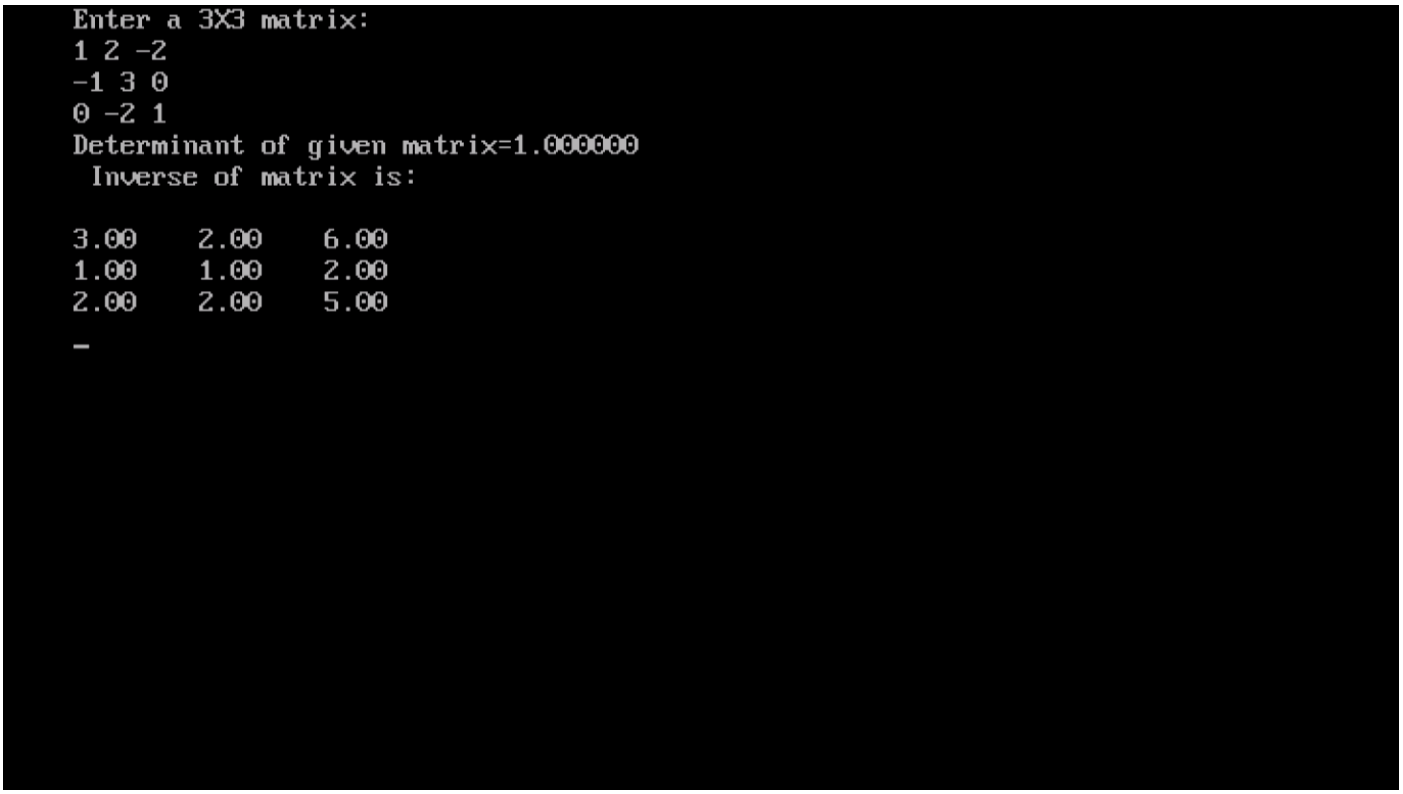
2. Multiplication of Matrices

OUTPUT:

```
Enter size of matrix A
3 3
Enter size of matrix B
3 3
Enter Matrix A of order 3X3
3 -3 4
2 -3 4
0 -1 1
Enter Matrix B of order 3X3
3 1 2
2 0 5
1 2 0
The Product matrix AB is
7       11      -9
4       10      -11
-1      2       -5
```

3.Determinant of a Matrix and Inverse of a Matrix

OUTPUT:

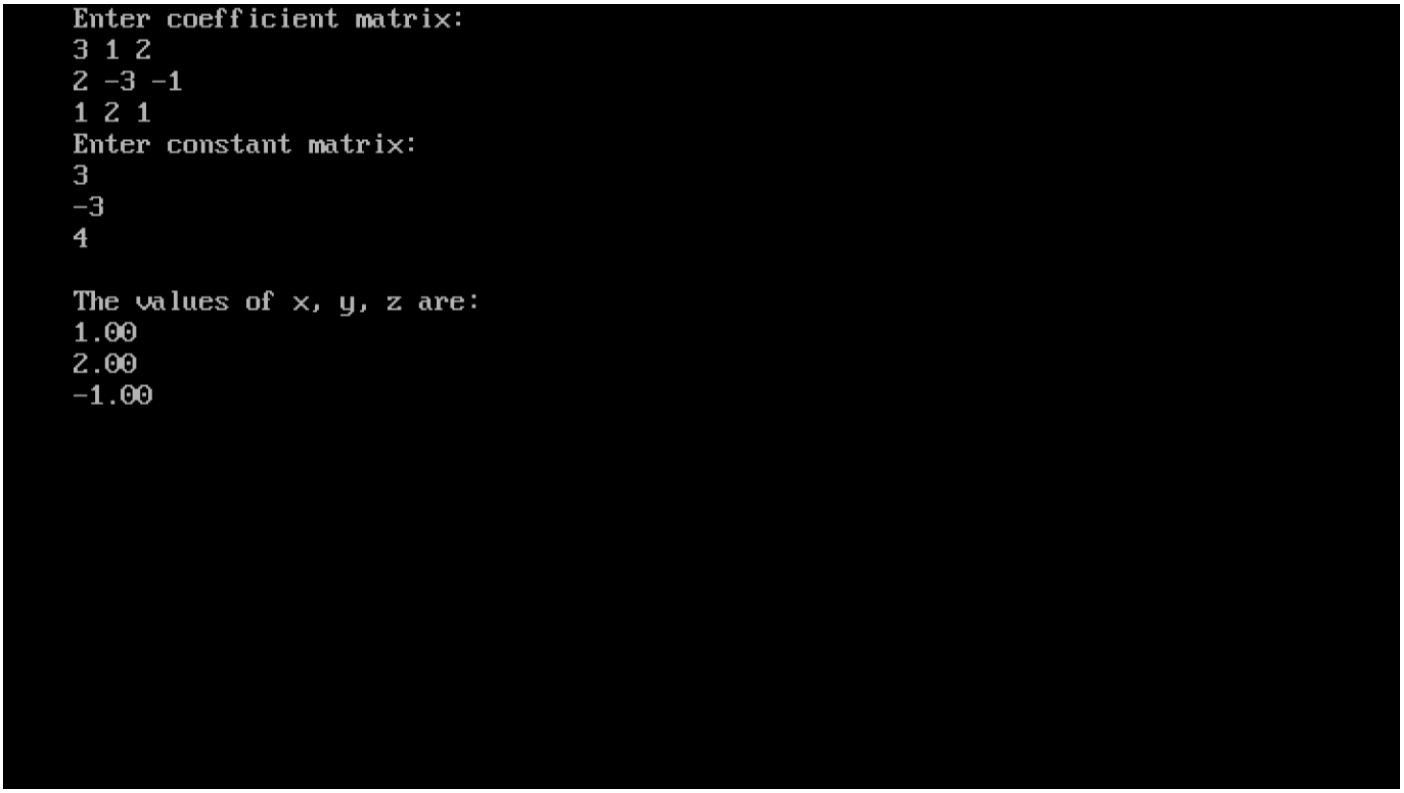


4. Singular and Non-Singular Matrices

OUTPUT:

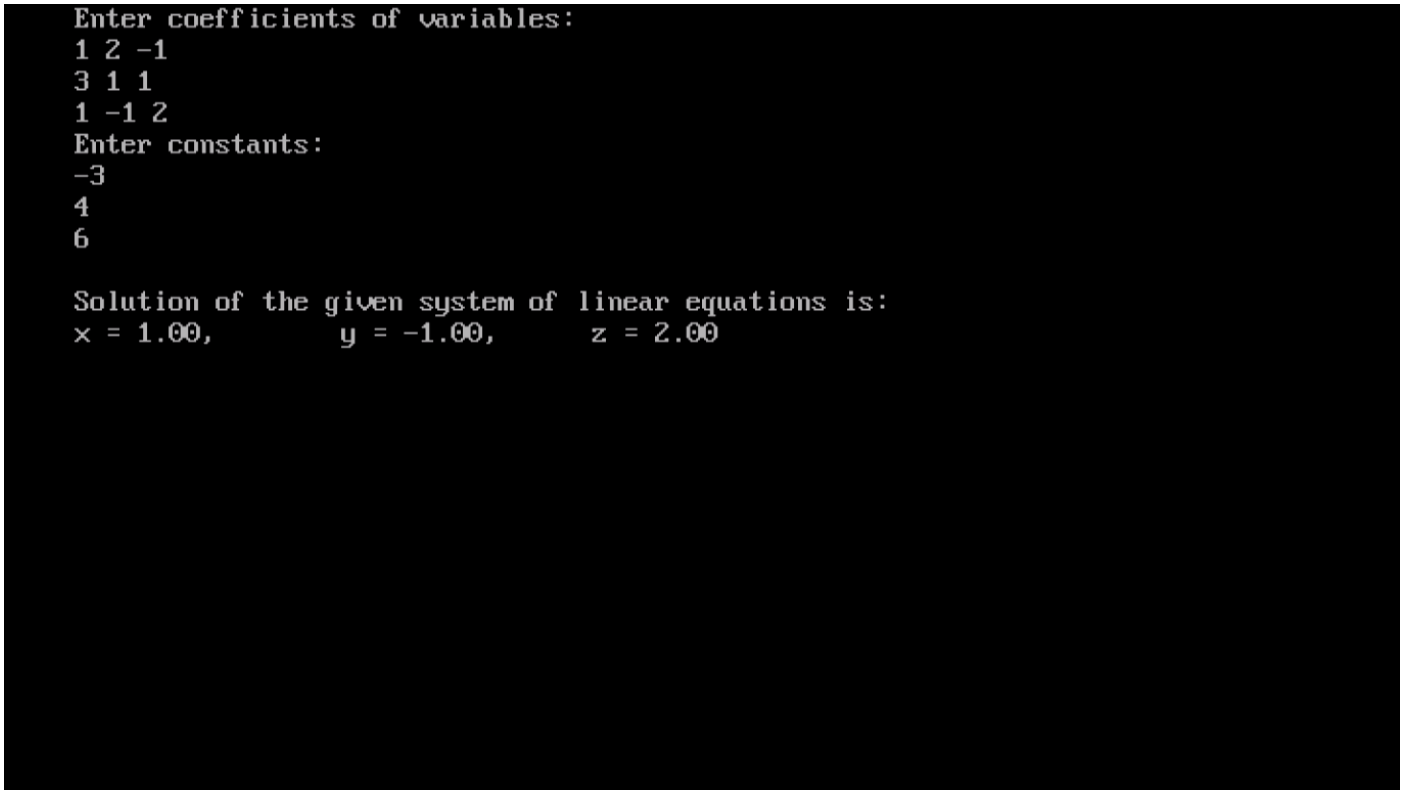
5. Matrix Inversion Method

OUTPUT:



6. Cramer's Rule

OUTPUT:



7. Rank of a Matrix.

OUTPUT:

```
Enter a 3x3 matrix:
-1 0 6
3 4 1
-5 1 3

Rank of the matrix is: 3
_
```

9.Problem on Mean and Median

OUTPUT:

```
How many values:
6
Enter 6 values:
26
8
12
15
32
6

Mean=16.50
Median=13.50_
```

10. Empirical relationship between mean, median and mode

OUTPUT: