There are 3 outputs below:

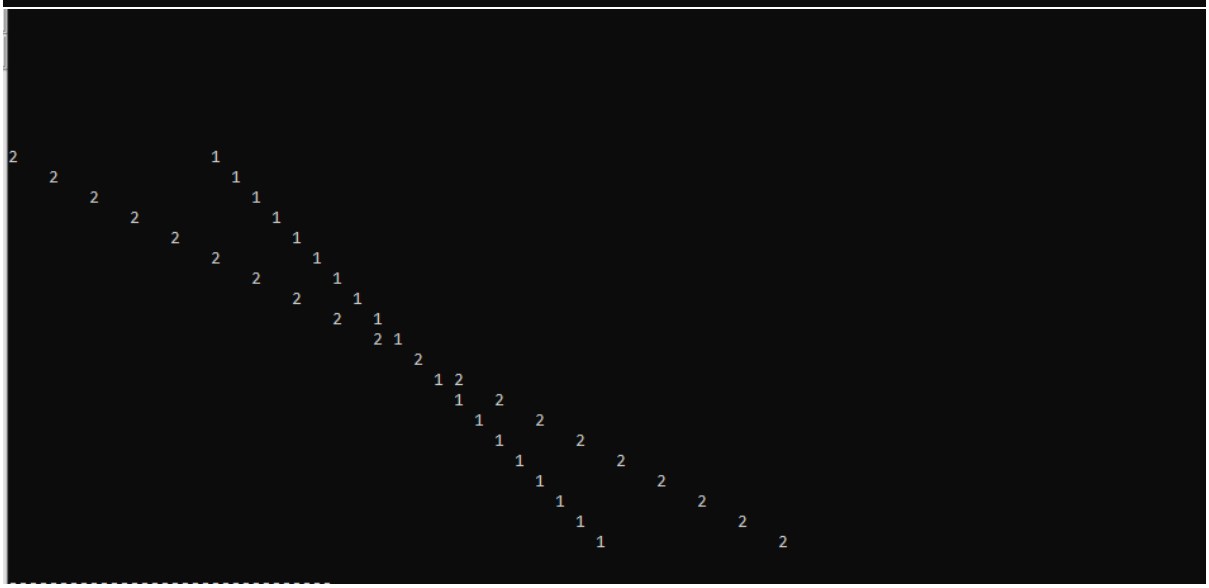
Output -1:

```
The equations should be in the format of:
        ax + by = c and
        px + qy = r
Enter a, b, c, p, q, r: 3 2 7 5 -3 37
The provided equations are:
        3x + 2y = 7
        5x - 3y = 37

Solving using Substitution Method:

The calculated value of x is = 5.00
The calculated value of y is = -4.00


Solving using Matrix Multiplication Method:
        [X = inverse(A)B]

The value of determinant = -19
The value of resultant A inverse is:
0.16    0.11
0.26    -0.16

The value of B is:
7
37
The value of resultant matrix is:
5.00
-4.00

The calculated value of x is = 5.00
The calculated value of y is = -4.00


The solution using both the methods match!
```

```


2                                                             1
  2                                                       1
      2                                                 1
          2                                         1
            2                                     1
                2                             1
                    2                       1
                      2                 1
                          2           1
                              2     1
                                2
                              1     2
                          1             2
                        1                 2
                    1                       2
                  1                             2
              1                                     2
            1                                         2
        1                                                 2
      1                                                       2

--------------------------------
```

Output - 2:

```
The equations should be in the format of:
        ax + by = c and
        px + qy = r
Enter a, b, c, p, q, r: 1 -1 -3 2 -1 -5
The provided equations are:
        1x - 1y = -3
        2x - 1y = -5

Solving using Substitution Method:

The calculated value of x is = -2.00
The calculated value of y is = 1.00


Solving using Matrix Multiplication Method:
        [X = inverse(A)B]

The value of determinant = 1
The value of resultant A inverse is:
-1.00   1.00
-2.00   1.00

The value of B is:
-3
-5
The value of resultant matrix is:
-2.00
1.00

The calculated value of x is = -2.00
The calculated value of y is = 1.00


The solution using both the methods match!
```



Output -3:

```
The equations should be in the format of:
        ax + by = c and
        px + qy = r
Enter a, b, c, p, q, r: 1 -2 3 1 -2 7
The provided equations are:
        1x - 2y = 3
        1x - 2y = 7


The lines are parallel and solution doesn't exist
```