Test case #1:

$$S = \begin{bmatrix} 2 \\ 6 \\ 7 \end{bmatrix}, D = \begin{bmatrix} 3 \\ 3 \\ 4 \\ 5 \end{bmatrix}, C = \begin{bmatrix} 13 & 11 & 15 & 40 \\ 17 & 14 & 12 & 13 \\ 18 & 18 & 15 & 12 \end{bmatrix}$$

Output:

```
==================   INPUT TABLE    ==================
    *    |   1   |   2   |   3   |   4    | Supply |
    ------------------------------------------------------
1        |   13  |   11  |   15  |   40   |   2    |
    ------------------------------------------------------
2        |   17  |   14  |   12  |   13   |   6    |
    ------------------------------------------------------
3        |   18  |   18  |   15  |   12   |   7    |
    ------------------------------------------------------
 Demand  |   3   |   3   |   4   |   5    |   *    |
    ------------------------------------------------------


North West Corner Method result:
[2, 0, 0, 0]
[1, 3, 2, 0]
[0, 0, 2, 5]
North West Corner Method | Initial Feasible Solution: 199
_____

Russell's Method result:
[0, 2, 0, 0]
[1, 1, 4, 0]
[2, 0, 0, 5]
Russell's Method | Initial Feasible Solution: 197
_____

Vogel's Method result:
[2, 0, 0, 0]
[0, 3, 3, 0]
[1, 0, 1, 5]
Vogel's Method | Initial Feasible Solution: 197
_____
```

Test case #2:

$$S = \begin{bmatrix} 80 \\ 40 \\ 20 \\ 50 \end{bmatrix}, D = \begin{bmatrix} 50 \\ 70 \\ 70 \end{bmatrix}, C = \begin{bmatrix} 9 & 6 & 1 \\ 9 & 8 & 2 \\ 4 & 7 & 3 \\ 7 & 8 & 8 \end{bmatrix}$$

Output:

```
===============  INPUT TABLE  ===============
    *    |   1   |   2   |   3    | Supply |
    -----------------------------------------
1        |   9   |   6   |   1    |   80   |
    -----------------------------------------
2        |   9   |   8   |   2    |   40   |
    -----------------------------------------
3        |   4   |   7   |   3    |   20   |
    -----------------------------------------
4        |   7   |   8   |   8    |   50   |
    -----------------------------------------
 Demand  |   50  |   70  |   70   |   *    |
    -----------------------------------------
North West Corner Method result:
[50, 30, 0]
[0, 40, 0]
[0, 0, 20]
[0, 0, 50]
North West Corner Method | Initial Feasible Solution: 1410
_____
Russell's Method result:
[0, 10, 70]
[0, 40, 0]
[20, 0, 0]
[30, 20, 0]
Russell's Method | Initial Feasible Solution: 900
_____
Vogel's Method result:
[0, 50, 30]
[0, 0, 40]
[20, 0, 0]
[30, 20, 0]
Vogel's Method | Initial Feasible Solution: 860
_____

Process finished with exit code 0
```

Test case #3:

$$
S = \begin{bmatrix} 20 \\ 40 \\ 30 \\ 20 \end{bmatrix}, D = \begin{bmatrix} 30 \\ 30 \\ 40 \\ 10 \end{bmatrix}, C = \begin{bmatrix} 4 & 2 & 8 & 6 \\ 6 & 7 & 9 & 2 \\ 7 & 1 & 4 & 1 \\ 8 & 9 & 3 & 5 \end{bmatrix}
$$

Output:

```
==================    INPUT TABLE    ==================
    *    |   1   |   2   |   3   |   4   | Supply |
    ------------------------------------------------------
1        |   4   |   2   |   8   |   6   |   20   |
    ------------------------------------------------------
2        |   6   |   7   |   9   |   2   |   40   |
    ------------------------------------------------------
3        |   7   |   1   |   4   |   1   |   30   |
    ------------------------------------------------------
4        |   8   |   9   |   3   |   5   |   20   |
    ------------------------------------------------------
 Demand  |   30  |   30  |   40  |   10  |   *    |
    ------------------------------------------------------
North West Corner Method result:
[20, 0, 0, 0]
[10, 30, 0, 0]
[0, 0, 30, 0]
[0, 0, 10, 10]
North West Corner Method | Initial Feasible Solution: 550
_____

Russell's Method result:
[0, 20, 0, 0]
[30, 0, 0, 10]
[0, 10, 20, 0]
[0, 0, 20, 0]
Russell's Method | Initial Feasible Solution: 390
_____

Vogel's Method result:
[0, 20, 0, 0]
[30, 0, 0, 10]
[0, 10, 20, 0]
[0, 0, 20, 0]
Vogel's Method | Initial Feasible Solution: 390
_____
```