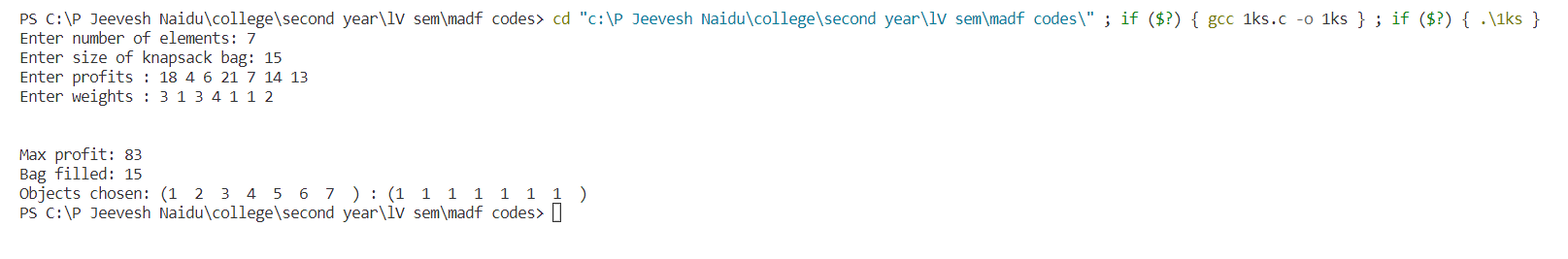
**P Jeevesh Naidu 211105039**

**1. 0/1 knapsack dynamic programming**

Input/output:



**2. n-queens**

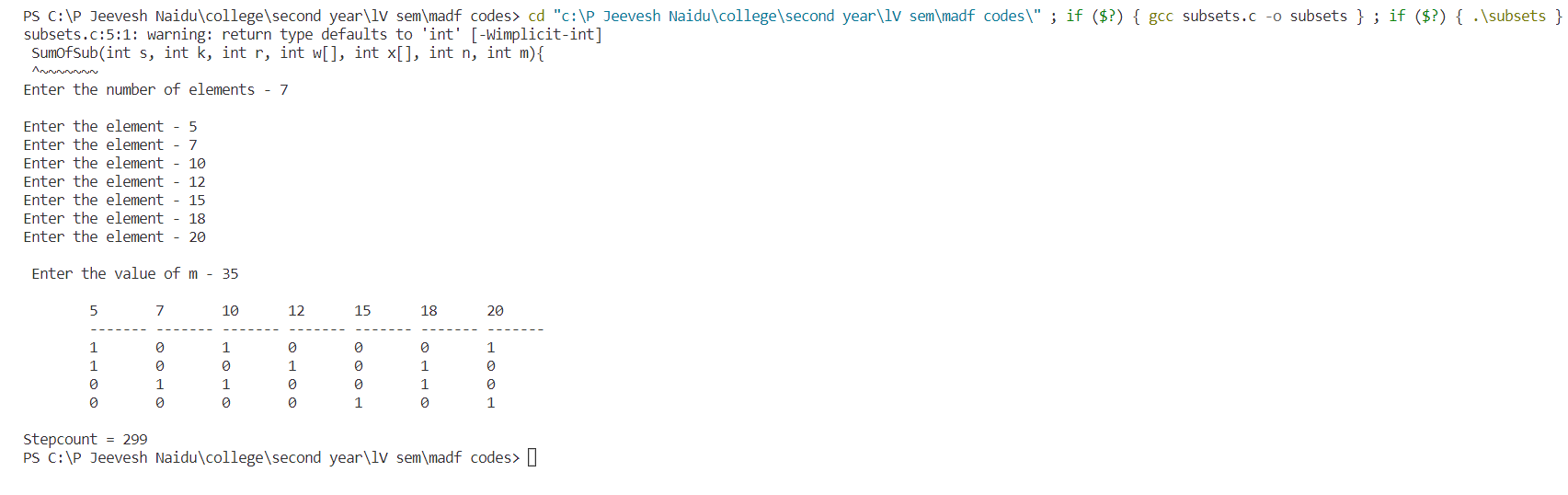
4 queens



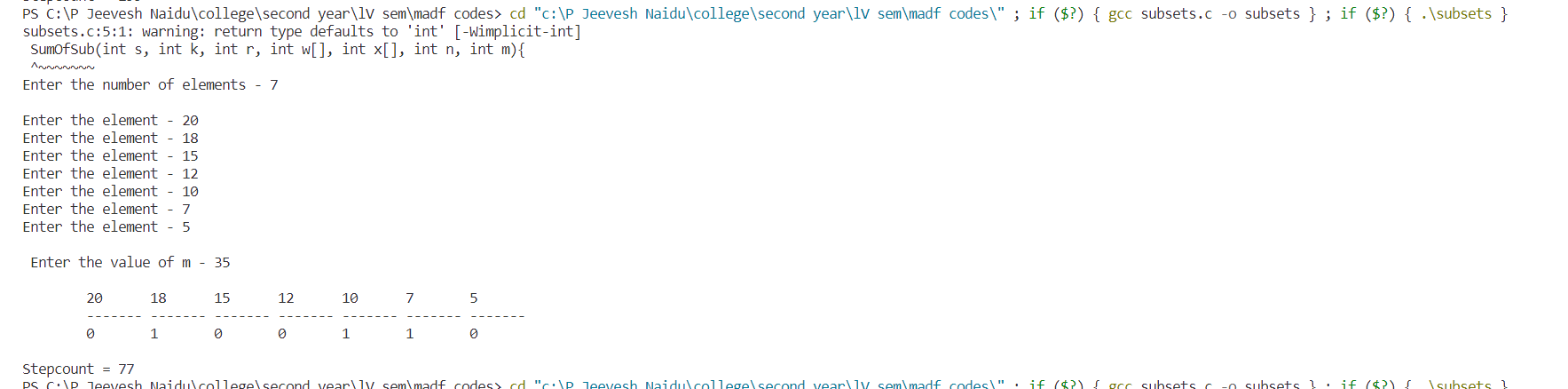
**3. sum of subsets:**

Input/output

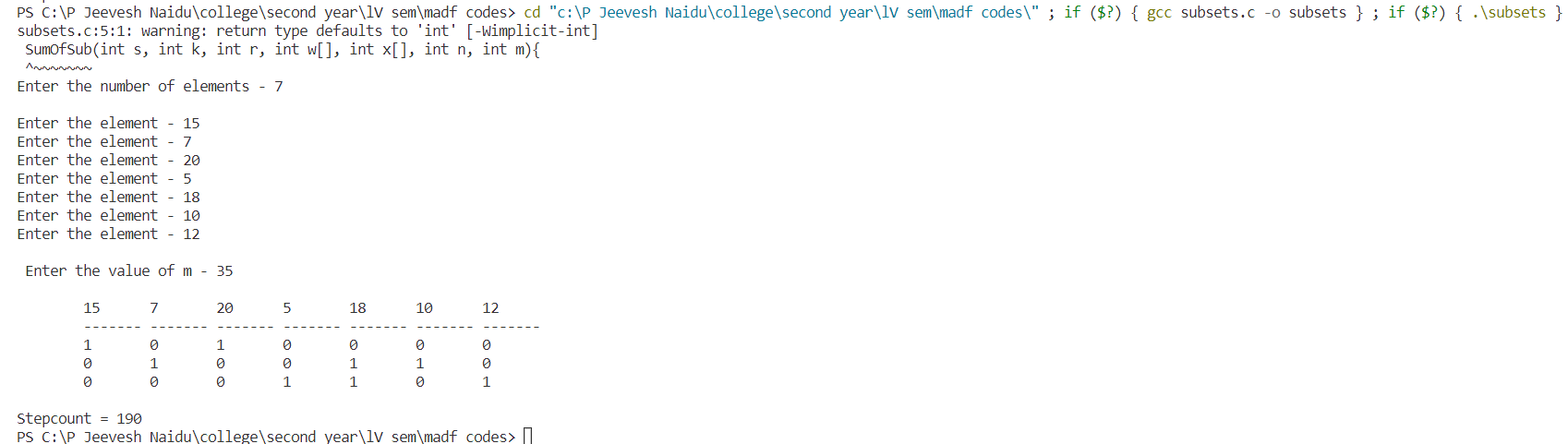
1]ascending order



2]descending order



3] random order



**4. m-colouring**:

input/output:

1]

PS C:\P Jeevesh Naidu\college\second year\lV sem\madf codes> cd "c:\P Jeevesh Naidu\college\second year\lV sem\madf codes\" ; if ($?) { gcc mclouring.c -o mclouring } ; if ($?) { .\mclouring }

Enter number of vertices: 10

Enter number of edges: 10

Enter edges:

Enter the u and v edge:

1 2

1 3

1 4

3 4

2 4

5 6

5 7

6 7

8 9

9 10

Enter number of colors: 3

The Solutions are:

Solution 1 - 1 2 2 3 1 2 3 1 2 1

Solution 2 - 1 2 2 3 1 2 3 1 2 3

Solution 3 - 1 2 2 3 1 2 3 1 3 1

Solution 4 - 1 2 2 3 1 2 3 1 3 2

Solution 5 - 1 2 2 3 1 2 3 2 1 2

Solution 6 - 1 2 2 3 1 2 3 2 1 3

Solution 7 - 1 2 2 3 1 2 3 2 3 1

Solution 8 - 1 2 2 3 1 2 3 2 3 2

Solution 9 - 1 2 2 3 1 2 3 3 1 2

Solution 10 - 1 2 2 3 1 2 3 3 1 3

Solution 11 - 1 2 2 3 1 2 3 3 2 1

Solution 12 - 1 2 2 3 1 2 3 3 2 3

Solution 13 - 1 2 2 3 1 3 2 1 2 1

Solution 14 - 1 2 2 3 1 3 2 1 2 3

Solution 15 - 1 2 2 3 1 3 2 1 3 1

Solution 16 - 1 2 2 3 1 3 2 1 3 2

Solution 17 - 1 2 2 3 1 3 2 2 1 2

Solution 18 - 1 2 2 3 1 3 2 2 1 3

Solution 19 - 1 2 2 3 1 3 2 2 3 1

Solution 20 - 1 2 2 3 1 3 2 2 3 2

Solution 21 - 1 2 2 3 1 3 2 3 1 2

Solution 22 - 1 2 2 3 1 3 2 3 1 3

Solution 23 - 1 2 2 3 1 3 2 3 2 1

Solution 24 - 1 2 2 3 1 3 2 3 2 3

Solution 25 - 1 2 2 3 2 1 3 1 2 1

Solution 26 - 1 2 2 3 2 1 3 1 2 3

Solution 27 - 1 2 2 3 2 1 3 1 3 1

Solution 28 - 1 2 2 3 2 1 3 1 3 2

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Solution 30 - 1 2 2 3 2 1 3 2 1 3

Solution 31 - 1 2 2 3 2 1 3 2 3 1

Solution 32 - 1 2 2 3 2 1 3 2 3 2

Solution 33 - 1 2 2 3 2 1 3 3 1 2

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Solution 38 - 1 2 2 3 2 3 1 1 2 3

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Solution 40 - 1 2 2 3 2 3 1 1 3 2

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Solution 46 - 1 2 2 3 2 3 1 3 1 3

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Solution 432 - 3 2 2 1 3 2 1 3 2 3

PS C:\P Jeevesh Naidu\college\second year\lV sem\madf codes>

2]



5. **Hamiltonian cycles:**

Input/output:

1]



2]

