PSUEDOCODE:

START

Prompt user: "Enter total number of people in the network"

WHILE input is not a valid positive integer

   Display error and prompt again

Create a list 'names' of size total_people

FOR i from 0 to total_people - 1

   Prompt: "Enter name i"

   Store name in 'names[i]'

Create 2D list 'arrayOfFriends' of size total_people x total_people, initialized to 0

FOR each person i

   FOR each person j

     IF i ≠ j AND difference between first letters of names[i] and names[j] ≤ 12

       Set arrayOfFriends[i][j] = 1

Print header row with names

FOR each person i

   Print name[i]

   FOR each person j

     Print arrayOfFriends[i][j] with tab spacing

Print "Total Friends Count:"

FOR each person i

    totalFriends = sum of arrayOfFriends[i]

    Print names[i] and totalFriends

END

TEST RUNS:

```
Bob       2
avi@Avis-MacBook-Pro ~ % /usr/local/bin/python3 /Users/avi/Desktop/SocialNetSharma.py
What is the total number of friends in the network: 2
Enter name 1: Tien
Enter name 2: Avii

        Tien    Avii
Tien    0       0
Avii    0       0

Total Friends Count:
Tien    0
Avii    0
```

```
avi@Avis-MacBook-Pro ~ % /usr/local/bin/python3 /Users/avi/Desktop/SocialNetSharma.py
What is the total number of friends in the network: 4
Enter name 1: Carter
Enter name 2: Ayush
Enter name 3: Avi
Enter name 4: Tien

        Carter  Ayush   Avi     Tien
Carter  0       1       1       0
Ayush   1       0       1       0
Avi     1       1       0       0
Tien    0       0       0       0

Total Friends Count:
Carter  2
Ayush   2
Avi     2
Tien    0
```

```
avi@Avis-MacBook-Pro ~ % /usr/local/bin/python3 /Users/avi/Desktop/SocialNetSharma.py
What is the total number of friends in the network: f
That is an incorrect input! Please enter an integer.
What is the total number of friends in the network: 2
Enter name 1: Burak
Enter name 2: Andrew


        Burak   Andrew
Burak   0       1
Andrew  1       0

Total Friends Count:
Burak   1
Andrew  1
```

```
What is the total number of friends in the network: 1
Enter name 1: Hanchae


        Hanchae
Hanchae 0

Total Friends Count:
Hanchae 0
avi@Avis-MacBook-Pro ~ %
```

```
What is the total number of friends in the network: 10
Enter name 1: Burak
Enter name 2: Tien
Enter name 3: Avi
Enter name 4: Ayush
Enter name 5: Carter
Enter name 6: Sam
Enter name 7: Caleb
Enter name 8: Hanchae
Enter name 9: Senay
Enter name 10: Julian
```

	Burak	Tien	Avi	Ayush	Carter	Sam	Caleb	Hanchae	Senay	Julian
Burak	0	0	1	1	1	0	1	1	0	1
Tien	0	0	0	0	0	1	0	1	1	1
Avi	1	0	0	1	1	0	1	1	0	1
Ayush	1	0	1	0	1	0	1	1	0	1
Carter	1	0	1	1	0	0	1	1	0	1
Sam	0	1	0	0	0	0	0	1	1	1
Caleb	1	0	1	1	1	0	0	1	0	1
Hanchae	1	1	1	1	1	1	1	0	1	1
Senay	0	1	0	0	0	1	0	1	0	1
Julian	1	1	1	1	1	1	1	1	1	0

```
Total Friends Count:
Burak   6
Tien    4
Avi     6
Ayush   6
Carter  6
Sam     4
Caleb   6
Hanchae 9
Senay   4
Julian  9
avi@Avis-MacBook-Pro ~ %
```