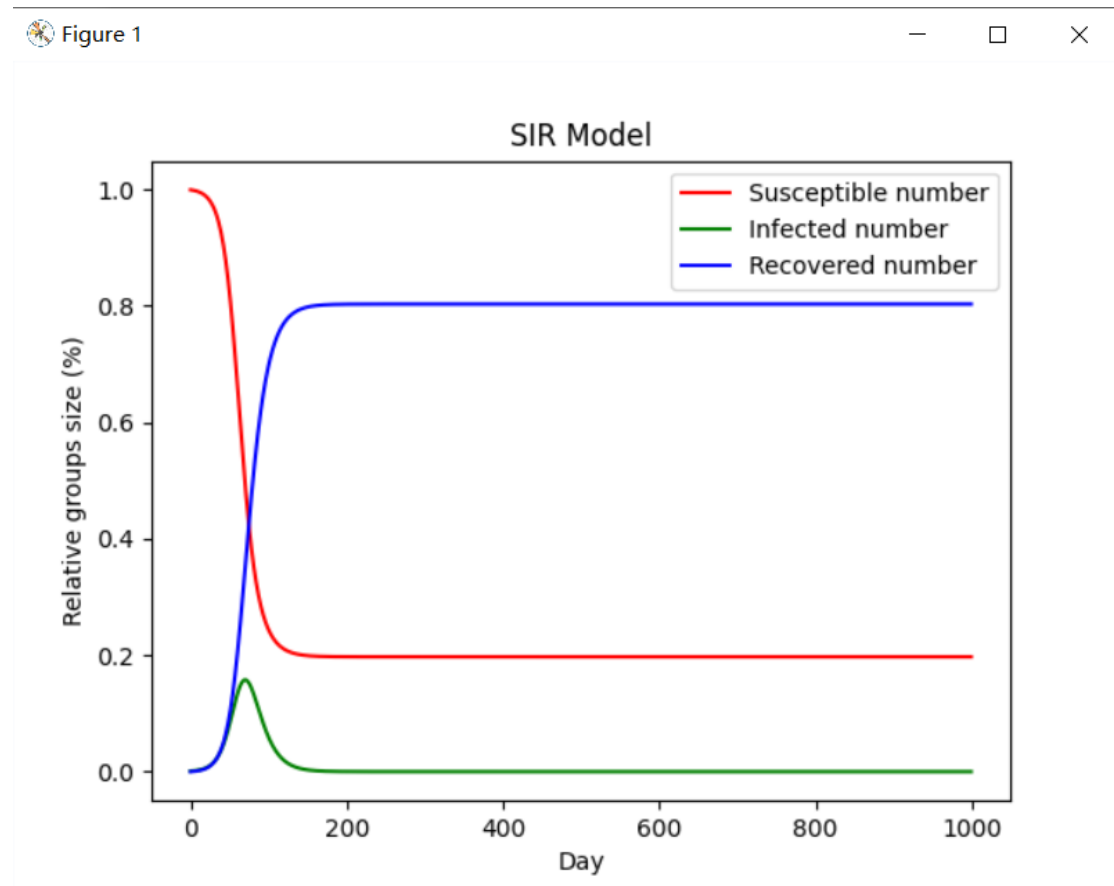
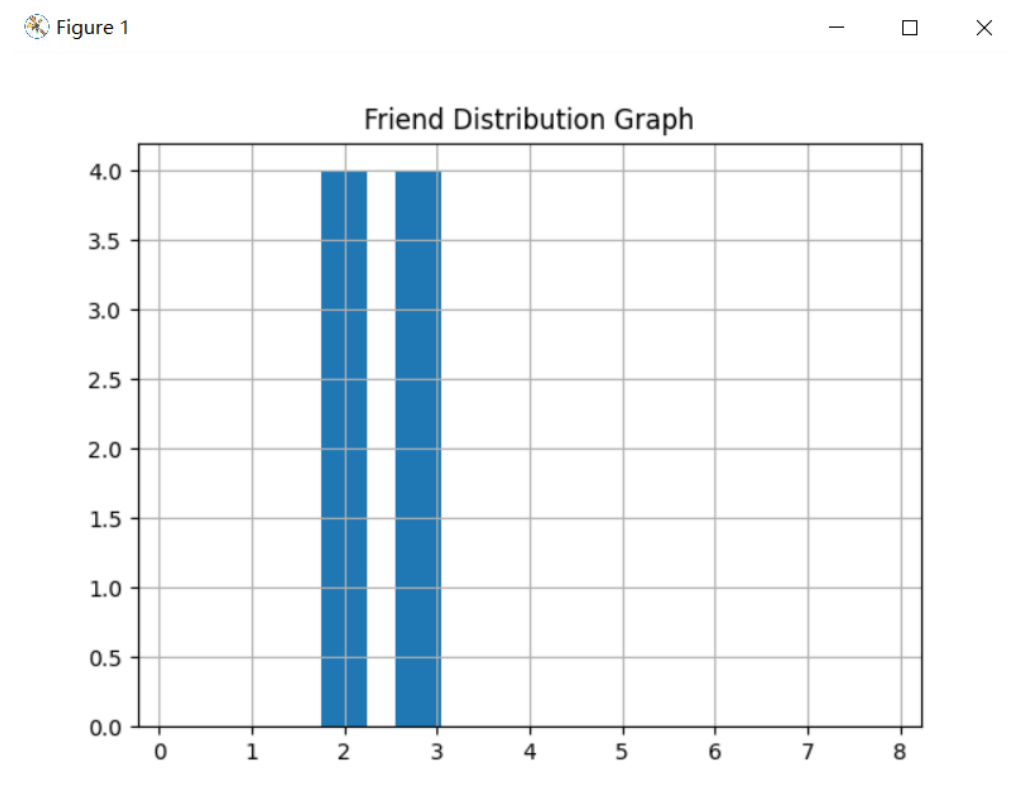


Q1



Q2

(1)



(2)

```
PS C:\Users\69009\Desktop\4\444\HW\3> & C:/Users/69009/Anaconda3/envs/VE450/python.exe c:/Users/69009/Desktop/4/444/HW/3/q2_2.py
Anaconda
TheShawshankRedemption
MeanGirls
```

Q3

(1)

```
[[0. 1. 0. 0. 1. 0.]
 [0. 0. 1. 1. 0. 0.]
 [0. 0. 0. 1. 1. 1.]
 [1. 0. 0. 0. 0. 0.]
 [1. 0. 0. 0. 0. 0.]
 [0. 0. 0. 0. 0. 0.]]
```

(2)

Node1	0.23527488366131385
Node2	0.1249918255560584
Node3	0.07812152586132483
Node4	0.10025595818870019
Node5	0.14712625788343375
Node6	0.04713443232737537