Garrett Gilliom and Matt Ryan

b)

```
G = {}
G['Chao'] = ['Anna', 'Latoya']
G['Anna'] = ['Chao', 'Latoya']
G['Latoya'] = ['Anna', 'Chao']
G['Deepak'] = ['Chao', 'Emma', 'Aisha', 'Greg']
G['Emma'] = ['Issac', 'Aisha', 'Deepak']
G['Issac'] = ['Emma', 'Aisha']
G['Aisha'] = ['Issac', 'Emma', 'Deepak']
G['Greg'] = ['Deepak', 'Juan', 'Hannah']
G['Juan'] = ['Greg', 'Hannah']
G['Hannah'] = ['Greg', 'Juan']
```

c)

Computer Network: In this case, the diameter of a graph represents the furthest distance of a direct connection between two computers.

Social Network: In this case, the diameter of a graph represents the furthest distance of a direct friend/relationship connection between two people. This could also be thought of has the most "degrees of separation" between two people, too.

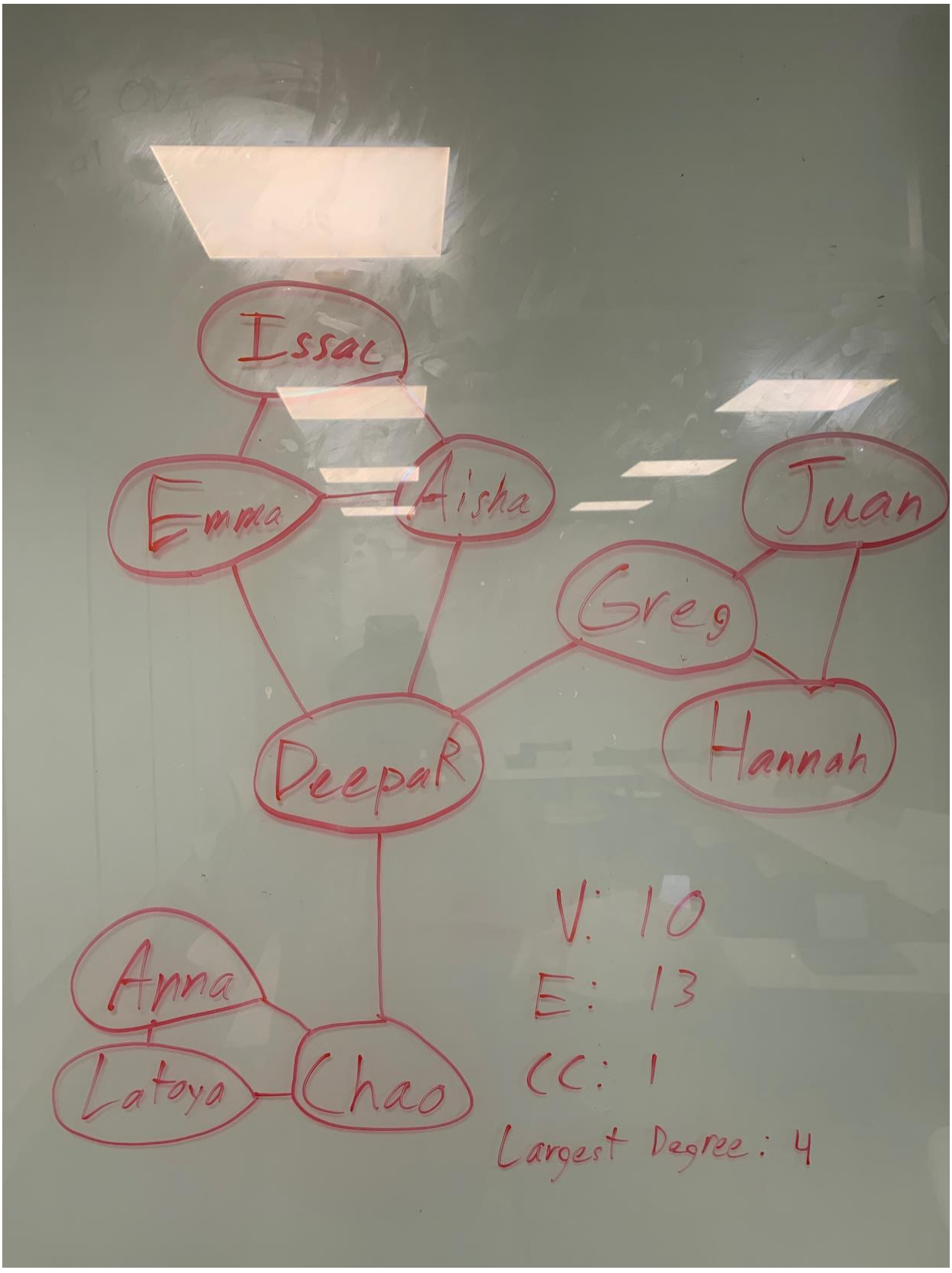
d)

function header: pass in graph:

```
    if graph is empty:
        return 0

    vertices = graph.keys()
    max = 0

    for vertex in graph:
        for spot in graph:
            distance = distance between vertex and spot
            if distance > max:
                max = distance
return max
```


Issac
Emma
Aisha
Juan
Greg
DeepaR
Hannah
Anna
Latoya
Chao
V: 10
E: 13
CC: 1
Largest Degree: 4