Lab Week 11 - Dictionaries/Sets

Skills Needed to complete this Lab

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| * Use sets * Reading a text file |

## Social Network

People have friends and connections on social media sites. Many times those site show us things for friends of friends who we aren’t directly connected to. You are given a text file (“friends.txt”) that contains rows of people who are connected as friends. Each line has 2 names separated by a space. For instance, line 1, is “Alice Bob” Which means alice is a friend of bob and bob is a friend of alice.

The input file may contain different values. You can’t assume you will have Alice, Bob, Carol, Edward, Daniel and Fran. You’ll want a data structure to track all the friends and each one will have its own data structure for what friends they have.

## Sample Output

Social Network

I. Find all friends shared by 2 people

D. Find all friends of X, that person Y does not have

S. Find all friends that X and Y have, but do not share with each other

Q. Quit

==> I

Enter a valid person ==> Alex

Alex is not part of this network, enter another name.

Enter a valid person ==> Alice

Enter a valid person ==> Fran

Alice and Fran share these people

Carol

Bob

Social Network

I. Find all friends shared by 2 people

D. Find all friends of X, that person Y does not have

S. Find all friends that X and Y have, but do not share with each other

Q. Quit

==> D

Enter a valid person ==> Alice

Enter a valid person ==> Fran

These people are friends with Alice but not with Fran.

Edward

Social Network

I. Find all friends shared by 2 people

D. Find all friends of X, that person Y does not have

S. Find all friends that X and Y have, but do not share with each other

Q. Quit

==> D

Enter a valid person ==> Fran

Enter a valid person ==> Alice

These people are friends with Fran but not with Alice.

Daniel

Social Network

I. Find all friends shared by 2 people

D. Find all friends of X, that person Y does not have

S. Find all friends that X and Y have, but do not share with each other

Q. Quit

==> S

Enter a valid person ==> Alice

Enter a valid person ==> Fran

These people are friends with Alice and Fran, but not both.

Edward

Daniel

Social Network

I. Find all friends shared by 2 people

D. Find all friends of X, that person Y does not have

S. Find all friends that X and Y have, but do not share with each other

Q. Quit

==> q

>>>

**Grading and Turning In**

Turn in your program before the end of the lab. Only upload the.py Solution file, as other files will be ignored. Grading will be performed with a different input file (still friends.txt).