Team Dojo

ProNet Acceptance Tests

#1

Read the example ProNet network from the ProNet.xml file provided, and display network on the screen in a table in alphabetical order, with the following columns:

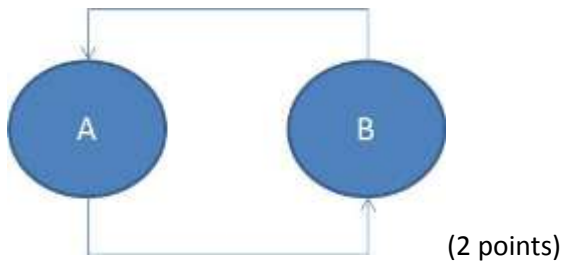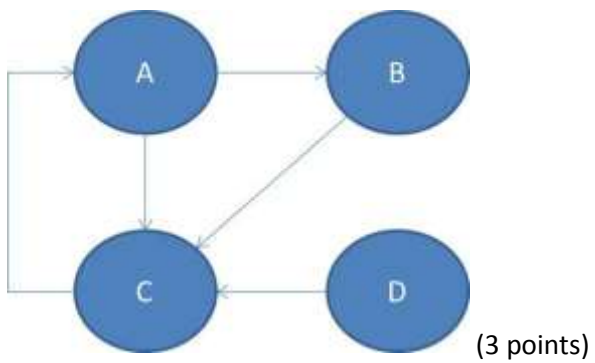| Programmer	Skills	Recommends
Bill	Ruby, Perl, PHP	Jason, Jill, Nick, Stu
Etc…		

(10 points)

#2

Calculate the "kudos" of all programmers in the following networks and display them on the screen, sorted in descending order of kudos:

a.

(2 points)

A=1, B=1

.b

(3 points)

A=1.49, B=0.78, C=1.59, D=0.15

c.

The programmer network described in ProNet.xml   (10 points)

See slides for correct values

#3

Display on the screen in a 2-dimensional table the degree of separation between every programmer in the ProNet.xml network

(15 points)

	Bill	Dave	Ed	Frank	Jason	Jill	Liz	Nick	Rick	Stu
Bill	0	2	1	2	1	1	1	1	2	1
Dave	2	0	3	3	1	1	2	2	4	3
Ed	1	3	0	3	2	2	1	2	1	2
Frank	2	3	3	0	3	2	3	1	4	1
Jason	1	1	2	3	0	2	1	2	3	2
Jill	1	1	2	2	2	0	2	1	3	2
Liz	1	2	1	3	1	2	0	2	2	2
Nick	1	2	2	1	2	1	2	0	3	1
Rick	2	4	1	4	3	3	2	3	0	3
Stu	1	3	2	1	2	2	2	1	3	0

#4

Using the network described in ProNet.xml (and displaying results on the screen),

a.   Calculate the strength of this Ruby team: **Jason (locus), Bill, Frank**   (4 points)

ANSWER: 0.36

b.   Calculate the strength of this C++ team: **Liz (locus), Bill, Ed, Nick**   (6 points)

ANSWER: 0.14

#5

Display all possible Java teams of 3 in the ProNet.xml network on the screen, sorted strongest to weakest, including their strength calculations

(15 points)

```
Strength: 0.527      Locus: Nick     Members: Dave  Jason
Strength: 0.504      Locus: Nick     Members: Jason Liz
Strength: 0.487      Locus: Nick     Members: Liz   Rick
Strength: 0.35       Locus: Jason    Members: Liz   Nick
Strength: 0.35       Locus: Liz      Members: Jason Nick
Strength: 0.337      Locus: Jason    Members: Nick  Rick
Strength: 0.329      Locus: Dave     Members: Nick  Rick
Strength: 0.328      Locus: Dave     Members: Liz   Nick
Strength: 0.302      Locus: Liz      Members: Nick  Rick
Strength: 0.251      Locus: Rick     Members: Liz   Nick
Strength: 0.219      Locus: Jason    Members: Dave  Liz
Strength: 0.199      Locus: Dave     Members: Jason Liz
Strength: 0.175      Locus: Liz      Members: Dave  Jason
Strength: 0.137      Locus: Rick     Members: Dave  Jason
Strength: 0.135      Locus: Rick     Members: Jason Liz
```