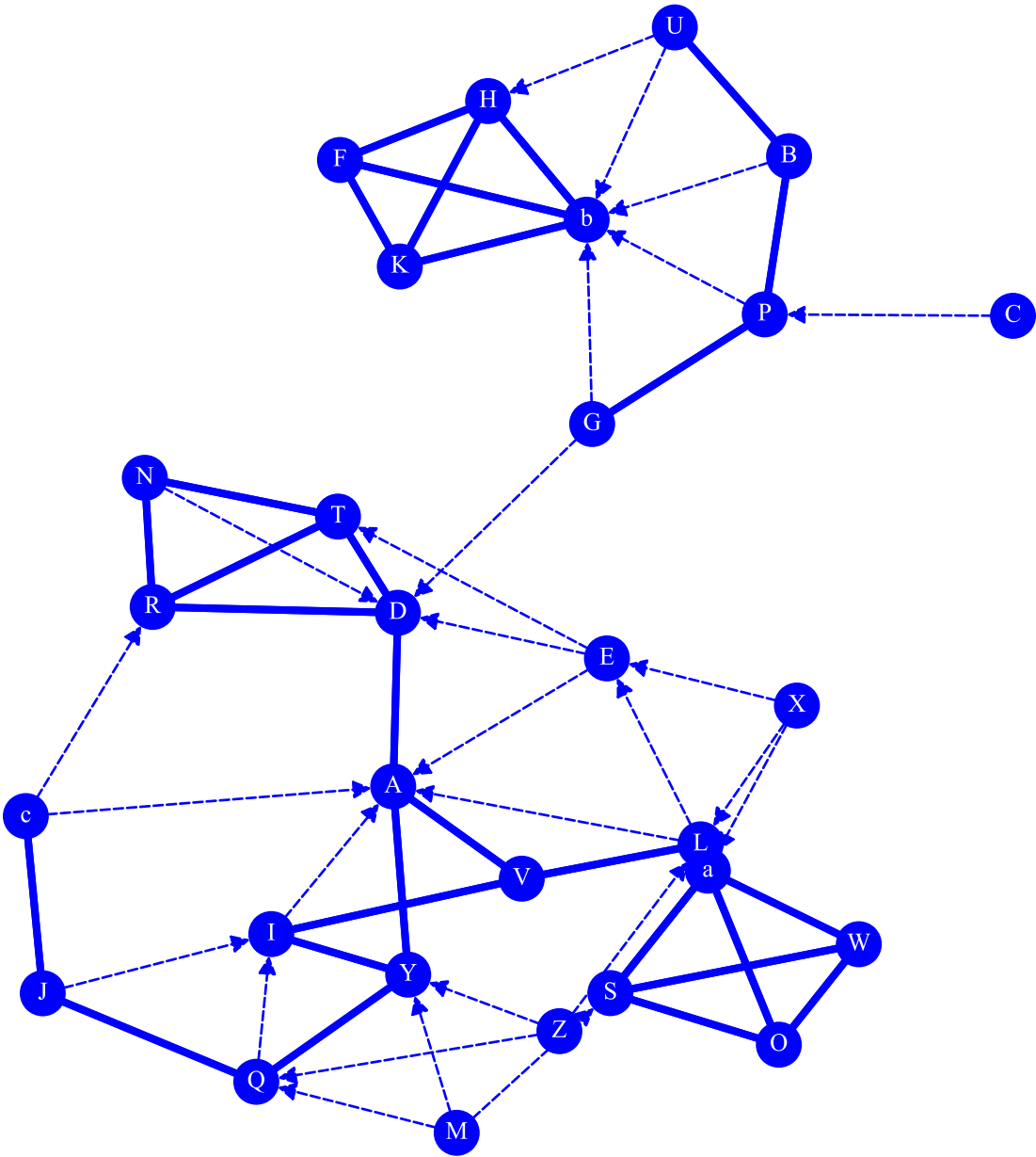


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A. Who would you choose to spend a free time outing with?

NN 29, NE 85, ND 10%, NC 12%, NT 58%, NR 68%



NN Nodes NE Edges ND Density NC Centralization NT Transitivity NR Reciprocity

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GROUP 1 - DEMO 2

SNA RAW SCORES

A. Who would you choose to spend a free time outing with?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	D, V, Y	0.25	0.08	0.15	0.35	0.05	
B	P, U, b	0.07	0.01	0.02	0.10	0.02	
C	P	0.00	0.01	0.00	0.00	0.01	←
D	A, R, T	0.21	0.08	0.14	0.34	0.07	
E	A, D, T	0.07	0.01	0.02	0.17	0.08	
F	H, K, b	0.11	0.06	0.00	0.16	0.02	
G	D, P, b	0.04	0.01	0.07	0.07	0.04	
H	F, K, b	0.14	0.06	0.00	0.18	0.02	
I	A, V, Y	0.14	0.04	0.02	0.23	0.06	
J	I, Q, c	0.07	0.02	0.03	0.17	0.03	
K	F, H, b	0.11	0.06	0.00	0.16	0.02	
L	A, E, V	0.11	0.02	0.04	0.21	0.05	
M	Q, S, Y	0.00	0.01	0.00	0.00	0.03	←
N	D, R, T	0.07	0.04	0.00	0.21	0.06	
O	S, W, a	0.11	0.04	0.00	0.13	0.01	
P	B, G, b	0.11	0.02	0.07	0.11	0.02	
Q	I, J, Y	0.14	0.03	0.05	0.22	0.04	
R	D, N, T	0.14	0.06	0.02	0.26	0.05	
S	O, W, a	0.14	0.04	0.00	0.15	0.01	
T	D, N, R	0.14	0.06	0.01	0.27	0.05	
U	B, H, b	0.04	0.01	0.00	0.06	0.02	
V	A, I, L	0.11	0.05	0.05	0.26	0.05	
W	O, S, a	0.11	0.04	0.00	0.13	0.01	
X	E, L, a	0.00	0.01	0.00	0.00	0.02	←
Y	A, I, Q	0.18	0.05	0.08	0.27	0.05	
Z	L, Q, Y	0.00	0.01	0.00	0.00	0.03	←
a	O, S, W	0.14	0.04	0.00	0.15	0.01	
b	F, H, K	0.25	0.07	0.02	0.25	0.02	
c	A, J, R	0.04	0.01	0.01	0.14	0.06	

IC In-Degree PR PageRank BT Betweenness CL Closeness HU Hub ND No In-Degree (←) No Out-Degree (→) No In or Out-Degree (↔)

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GROUP 1 - DEMO 2

SNA RANK SCORES

A. Who would you choose to spend a free time outing with?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	D, V, Y	1	1	1	1	7	
B	P, U, b	6	21	10	19	20	
C	P	8	25	20	22	27	←
D	A, R, T	2	2	2	2	2	
E	A, D, T	6	20	12	13	1	
F	H, K, b	5	6	20	14	17	
G	D, P, b	7	22	4	20	12	
H	F, K, b	4	4	18	11	19	
I	A, V, Y	4	11	11	7	4	
J	I, Q, c	6	19	9	12	16	
K	F, H, b	5	5	20	14	17	
L	A, E, V	5	17	8	10	11	
M	Q, S, Y	8	25	20	22	15	←
N	D, R, T	6	15	20	9	3	
O	S, W, a	5	14	20	17	24	
P	B, G, b	5	18	5	18	21	
Q	I, J, Y	4	16	7	8	13	
R	D, N, T	4	8	14	5	8	
S	O, W, a	4	13	17	15	26	
T	D, N, R	4	7	15	4	9	
U	B, H, b	7	24	19	21	18	
V	A, I, L	5	10	6	5	10	
W	O, S, a	5	14	20	17	24	
X	E, L, a	8	25	20	22	23	←
Y	A, I, Q	3	9	3	3	6	
Z	L, Q, Y	8	25	20	22	14	←
a	O, S, W	4	12	17	15	25	
b	F, H, K	1	3	13	6	22	
c	A, J, R	7	23	16	16	5	

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (↔) Very low Low High Very high

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GROUP 1 - DEMO 2

SNA NODES ORDERED BY RANKS

A. Who would you choose to spend a free time outing with?

RANK	IC	RANK	PR	RANK	BT	RANK	CL	RANK	HU
1	A	1	A	1	A	1	A	1	E
1	b	2	D	2	D	2	D	2	D
2	D	3	b	3	Y	3	Y	3	N
3	Y	4	H	4	G	4	T	4	I
4	H	5	K	5	P	5	R	5	c
4	I	6	F	6	V	5	V	6	Y
4	Q	7	T	7	Q	6	b	7	A
4	R	8	R	8	L	7	I	8	R
4	S	9	Y	9	J	8	Q	9	T
4	T	10	V	10	B	9	N	10	V
4	a	11	I	11	I	10	L	11	L
5	F	12	a	12	E	11	H	12	G
5	K	13	S	13	b	12	J	13	Q
5	L	14	O	14	R	13	E	14	Z
5	O	14	W	15	T	14	F	15	M
5	P	15	N	16	c	14	K	16	J
5	V	16	Q	17	S	15	S	17	F
5	W	17	L	17	a	15	a	17	K
6	B	18	P	18	H	16	c	18	U
6	E	19	J	19	U	17	O	19	H
6	J	20	E	20	C	17	W	20	B
6	N	21	B	20	F	18	P	21	P
7	G	22	G	20	K	19	B	22	b
7	U	23	c	20	M	20	G	23	X
7	c	24	U	20	N	21	U	24	O
8	C	25	C	20	O	22	C	24	W
8	M	25	M	20	W	22	M	25	a
8	X	25	X	20	X	22	X	26	S
8	Z	25	Z	20	Z	22	Z	27	C

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub

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GROUP 1 - DEMO 2

SNA EDGES GROUPED BY TYPE

A. Who would you choose to spend a free time outing with?

Non reciprocal edges

$X \rightarrow Y$ in network A · not $Y \rightarrow X$ in network A

- B · b

C · P

E · A

E · D

E · T

G · D

G · b

I · A

J · I

L · A

L · E

M · Q

M · S

M · Y

N · D

P · b
- Q · I

U · H

U · b

X · E

X · L

X · a

Z · L

Z · Q

Z · Y

c · A

c · R

Reciprocal edges

$X \rightarrow Y$ in network A · $Y \rightarrow X$ in network A

- A · D

A · V

A · Y

B · P

B · U

D · R

D · T

F · H

F · K

F · b

G · P

H · K

H · b

I · V

I · Y

J · Q
- J · c

K · b

L · V

N · R

N · T

O · S

O · W

O · a

Q · Y

R · T

S · W

S · a

W · a

Half symmetrical edges

$X \rightarrow Y$ in network A · $X \rightarrow Y$ in network B

- D · R

G · b

M · Q

N · R

N · T

O · S

O · W

P · b

U · b

Reversed half symmetrical edges

$X \rightarrow Y$ in network A · $Y \rightarrow X$ in network B

- E · A

H · F

H · K

J · c

Q · I

R · D

R · N

S · O

S · a

T · N

T · R

W · O

W · a

Z · Y

a · O

b · F
- b · H

b · K

Full symmetrical edges

$X \rightarrow Y, Y \rightarrow X$ in network A · $X \rightarrow Y, Y \rightarrow X$ in network B

- F · H

F · b

H · b

K · b

O · a

R · T

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A. Who would you choose to spend a free time outing with?

Strongly Connected Components

Maximal subgraphs where all vertices are mutually reachable.

13

A · D · E · I · J · L · N · Q · R · T · V · Y · c

4

F · H · K · b

B · G · P · U

O · S · W · a

Weakly Connected Components

Maximal subgraphs where any vertices are connected by undirected paths.

29

A · B · C · D · E · F · G · H · I · J · K · L · M · N · O · P · Q · R · S · T · U · V · W · X · Y · Z · a · b · c

Cliques

Subgraphs that become fully connected when directional edges are ignored.

4

F · H · K · b

D · N · R · T

O · S · W · a

3

H · U · b

G · P · b

B · P · b

B · U · b

A · I · V

A · L · V

A · D · E

D · E · T

E · L · X

A · E · L

A · I · Y

I · Q · Y

I · J · Q

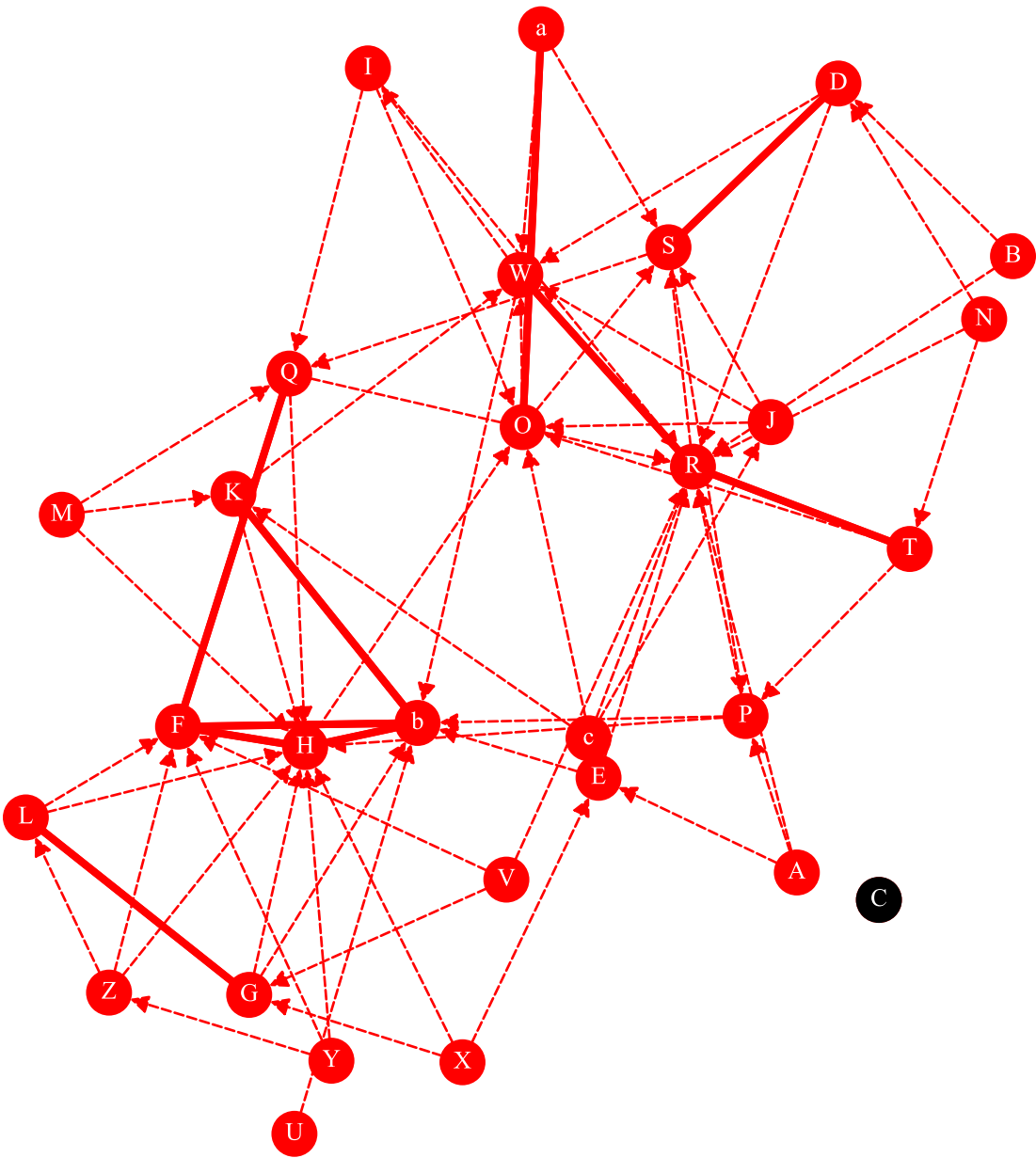
Q · Y · Z

M · Q · Y

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B. Who would you choose to organize a study group?

NN 29, NE 81, ND 10%, NC 31%, NT 32%, NR 25%



NN Nodes NE Edges ND Density NC Centralization NT Transitivity NR Reciprocity

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GROUP 1 - DEMO 2

SNA RAW SCORES

B. Who would you choose to organize a study group?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	E, P, R	0.00	0.01	0.00	0.00	0.03	←
B	D, R	0.00	0.01	0.00	0.00	0.03	←
C	-	0.00	0.01	0.00	0.00	0.00	↔
D	R, S, W	0.11	0.03	0.01	0.32	0.04	
E	O, R, b	0.07	0.01	0.01	0.07	0.05	
F	H, Q, b	0.25	0.10	0.04	0.44	0.05	
G	H, L, b	0.11	0.01	0.01	0.11	0.04	
H	F, O, b	0.39	0.12	0.09	0.51	0.04	
I	O, Q, R	0.04	0.03	0.01	0.33	0.04	
J	O, S, W	0.04	0.01	0.01	0.04	0.02	
K	H, W, b	0.11	0.04	0.02	0.37	0.05	
L	F, G, H	0.07	0.01	0.00	0.11	0.04	
M	H, K, Q	0.00	0.01	0.00	0.00	0.04	←
N	D, R, T	0.00	0.01	0.00	0.00	0.03	←
O	S, W, a	0.21	0.07	0.10	0.49	0.01	
P	H, R, b	0.11	0.04	0.02	0.33	0.06	
Q	F, H, R	0.14	0.06	0.04	0.43	0.06	
R	S, T, W	0.43	0.09	0.10	0.51	0.01	
S	D, P, Q	0.18	0.07	0.08	0.43	0.01	
T	O, P, R	0.07	0.03	0.02	0.34	0.04	
U	b	0.00	0.01	0.00	0.00	0.02	←
V	F, G, R	0.00	0.01	0.00	0.00	0.04	←
W	I, R, b	0.21	0.08	0.08	0.47	0.04	
X	E, G, H	0.00	0.01	0.00	0.00	0.03	←
Y	F, H, Z	0.00	0.01	0.00	0.00	0.04	←
Z	F, H, L	0.04	0.01	0.00	0.04	0.04	
a	O, S, W	0.04	0.02	0.00	0.33	0.02	
b	F, H, K	0.29	0.12	0.07	0.53	0.04	
c	J, K, R	0.00	0.01	0.00	0.00	0.03	←

IC In-Degree PR PageRank BT Betweenness CL Closeness HU Hub ND No In-Degree (←) No Out-Degree (→) No In or Out-Degree (↔)





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GROUP 1 - DEMO 2

SNA RANK SCORES

B. Who would you choose to organize a study group?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	E, P, R	11	19	19	16	19	←
B	D, R	11	19	19	16	22	←
C	-	11	19	19	16	28	↔
D	R, S, W	8	12	13	12	17	
E	O, R, b	9	17	12	14	3	
F	H, Q, b	4	3	8	5	5	
G	H, L, b	8	15	14	13	7	
H	F, O, b	2	2	3	2	11	
I	O, Q, R	10	13	16	11	14	
J	O, S, W	10	18	15	15	23	
K	H, W, b	8	9	11	8	4	
L	F, G, H	9	16	17	13	6	
M	H, K, Q	11	19	19	16	16	←
N	D, R, T	11	19	19	16	21	←
O	S, W, a	5	6	2	3	27	
P	H, R, b	8	10	10	11	1	
Q	F, H, R	7	8	7	7	2	
R	S, T, W	1	4	1	2	25	
S	D, P, Q	6	7	4	6	26	
T	O, P, R	9	11	9	9	15	
U	b	11	19	19	16	24	←
V	F, G, R	11	19	19	16	9	←
W	I, R, b	5	5	5	4	12	
X	E, G, H	11	19	19	16	18	←
Y	F, H, Z	11	19	19	16	13	←
Z	F, H, L	10	18	18	15	10	
a	O, S, W	10	14	19	10	23	
b	F, H, K	3	1	6	1	8	
c	J, K, R	11	19	19	16	20	←

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (↔)  Very low  Low  High  Very high

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GROUP 1 - DEMO 2

SNA NODES ORDERED BY RANKS

B. Who would you choose to organize a study group?

RANK	IC	RANK	PR	RANK	BT	RANK	CL	RANK	HU
1	R	1	b	1	R	1	b	1	P
2	H	2	H	2	O	2	H	2	Q
3	b	3	F	3	H	2	R	3	E
4	F	4	R	4	S	3	O	4	K
5	O	5	W	5	W	4	W	5	F
5	W	6	O	6	b	5	F	6	L
6	S	7	S	7	Q	6	S	7	G
7	Q	8	Q	8	F	7	Q	8	b
8	D	9	K	9	T	8	K	9	V
8	G	10	P	10	P	9	T	10	Z
8	K	11	T	11	K	10	a	11	H
8	P	12	D	12	E	11	I	12	W
9	E	13	I	13	D	11	P	13	Y
9	L	14	a	14	G	12	D	14	I
9	T	15	G	15	J	13	G	15	T
10	I	16	L	16	I	13	L	16	M
10	J	17	E	17	L	14	E	17	D
10	Z	18	J	18	Z	15	J	18	X
10	a	18	Z	19	A	15	Z	19	A
11	A	19	A	19	B	16	A	20	c
11	B	19	B	19	C	16	B	21	N
11	C	19	C	19	M	16	C	22	B
11	M	19	M	19	N	16	M	23	J
11	N	19	N	19	U	16	N	23	a
11	U	19	U	19	V	16	U	24	U
11	V	19	V	19	X	16	V	25	R
11	X	19	X	19	Y	16	X	26	S
11	Y	19	Y	19	a	16	Y	27	O
11	c	19	c	19	c	16	c	28	C

IC In-Degree PR PageRank BT Betweenness CL Closeness HU Hub

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GROUP 1 - DEMO 2

SNA EDGES GROUPED BY TYPE

B. Who would you choose to organize a study group?

Non reciprocal edges

$X \rightarrow Y$ in network B · not $Y \rightarrow X$ in network B

- A · E
- A · P
- A · R
- B · D
- B · R
- D · R
- D · W
- E · O
- E · R
- E · b
- G · H
- G · b
- H · O
- I · O
- I · Q
- I · R
- J · O
- J · S
- J · W
- K · H
- K · W
- L · F
- L · H
- M · H
- M · K
- M · Q
- N · D
- N · R
- N · T
- O · S
- O · W
- P · H
- P · R
- P · b
- Q · H
- Q · R
- R · S
- S · P
- S · Q
- T · O
- T · P
- U · b
- V · F
- V · G
- V · R
- W · I
- W · b
- X · E
- X · G
- X · H
- Y · F
- Y · H
- Y · Z
- Z · F
- Z · H
- Z · L
- a · S
- a · W
- c · J
- c · K
- c · R

Reciprocal edges

$X \rightarrow Y$ in network B · $Y \rightarrow X$ in network B

- D · S
- F · H
- F · Q
- F · b
- G · L
- H · b
- K · b
- O · a
- R · T
- R · W

Half symmetrical edges

$X \rightarrow Y$ in network B · $X \rightarrow Y$ in network A

- D · R
- G · b
- M · Q
- N · R
- N · T
- O · S
- O · W
- P · b
- U · b

Reversed half symmetrical edges

$X \rightarrow Y$ in network B · $Y \rightarrow X$ in network A

- A · E
- D · R
- H · F
- I · Q
- K · H
- N · R
- N · T
- O · S
- O · W
- T · R
- Y · Z
- a · O
- a · S
- a · W
- b · F
- b · H
- b · K
- c · J

Full symmetrical edges

$X \rightarrow Y, Y \rightarrow X$ in network B · $X \rightarrow Y, Y \rightarrow X$ in network A

- F · H
- F · b
- H · b
- K · b
- O · a
- R · T

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B. Who would you choose to organize a study group?

Strongly Connected Components

Maximal subgraphs where all vertices are mutually reachable.

14 D · F · H · I · K · O · P · Q · R · S · T · W · a · b

Weakly Connected Components

Maximal subgraphs where any vertices are connected by undirected paths.

28 A · B · D · E · F · G · H · I · J · K · L · M · N · O · P · Q · R · S · T · U · V · W · X · Y · Z · a · b · c

Cliques

Subgraphs that become fully connected when directional edges are ignored.

4 F · H · Y · Z F · H · L · Z 3 H · P · b G · H · X H · K · b H · K · M F · H · b F · H · Q H · M · Q
G · H · b G · H · L K · W · b O · S · a O · W · a I · Q · R Q · R · S A · P · R P · R · S P · R · T
A · E · R D · N · R D · R · S B · D · R D · R · W I · R · W N · R · T J · O · S J · O · W I · O · W