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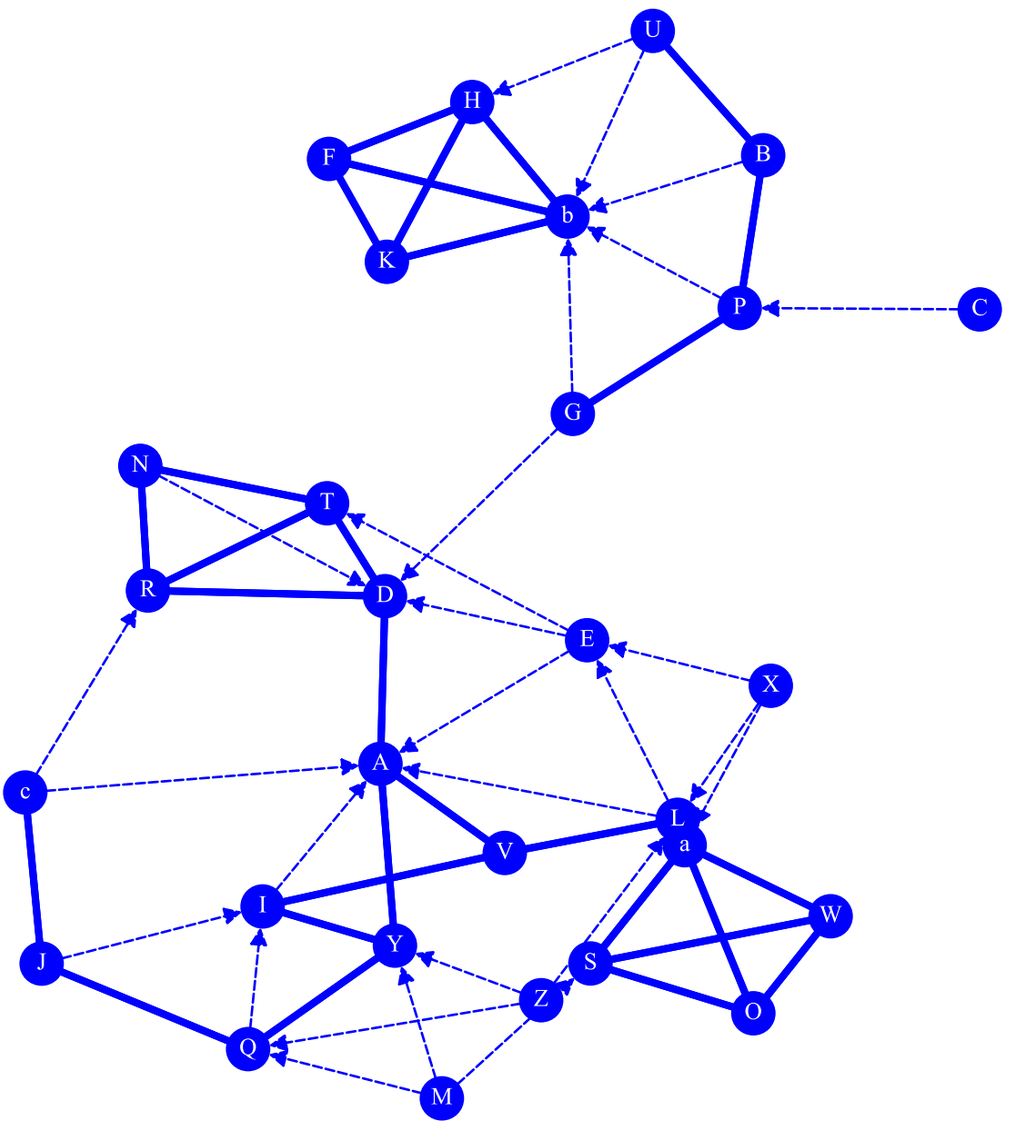
GROUP 1 - DEMO 2 **SNA NETWORK GRAPH**

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** Closenness **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	28	←
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	27	
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	25	
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	26	
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** Closenness **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	25	W
8	M	25	M	20	W	22	M	26	a
8	X	25	X	20	X	22	X	27	S
8	Z	25	Z	20	Z	22	Z	28	C

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closenness **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 → Y in network A · not Y → 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 → Y in network A · Y → 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 → Y in network A · X → 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 → Y in network A · Y → 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 → Y, Y → X in network A · X → Y, Y → 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 O · S · W · a

D · N · R · T

F · H · K · b

3 E · L · X

B · P · b

B · U · b

H · U · b

G · P · b

I · J · Q

A · I · V

A · I · Y

A · L · V

A · E · L

A · D · E

D · E · T

Q · Y · Z

M · Q · Y

I · Q · Y

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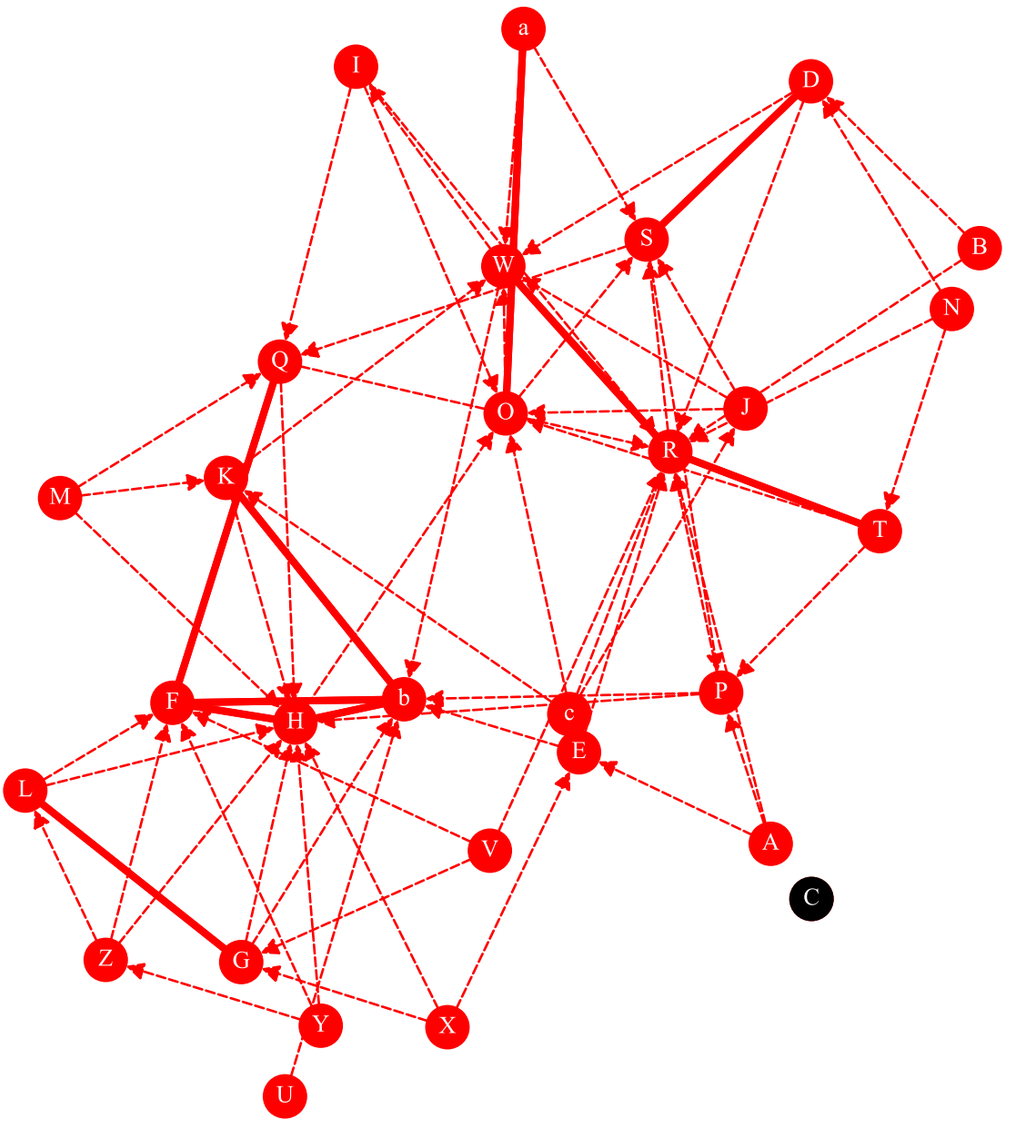
GROUP 1 - DEMO 2 **SNA NETWORK GRAPH**

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** Closenness **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** Closenness **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** Closenness **HU** Hub

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

Non reciprocal edges

X → Y in network B · not Y → 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 → Y in network B · Y → 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 → Y in network B · X → 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 → Y in network B · Y → 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 → Y, Y → X in network B · X → Y, Y → 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 · K · M
K · W · b
H · K · b
F · H · Q
F · H · b
G · H · L
G · H · b
G · H · X
J · O · S
J · O · W
O · S · a
O · W · a
I · O · W
I · Q · R
I · R · W
P · R · S
A · P · R
P · R · T
A · E · R
D · R · S
B · D · R
D · N · R
D · R · W
Q · R · S
N · R · T
H · M · Q
H · P · b