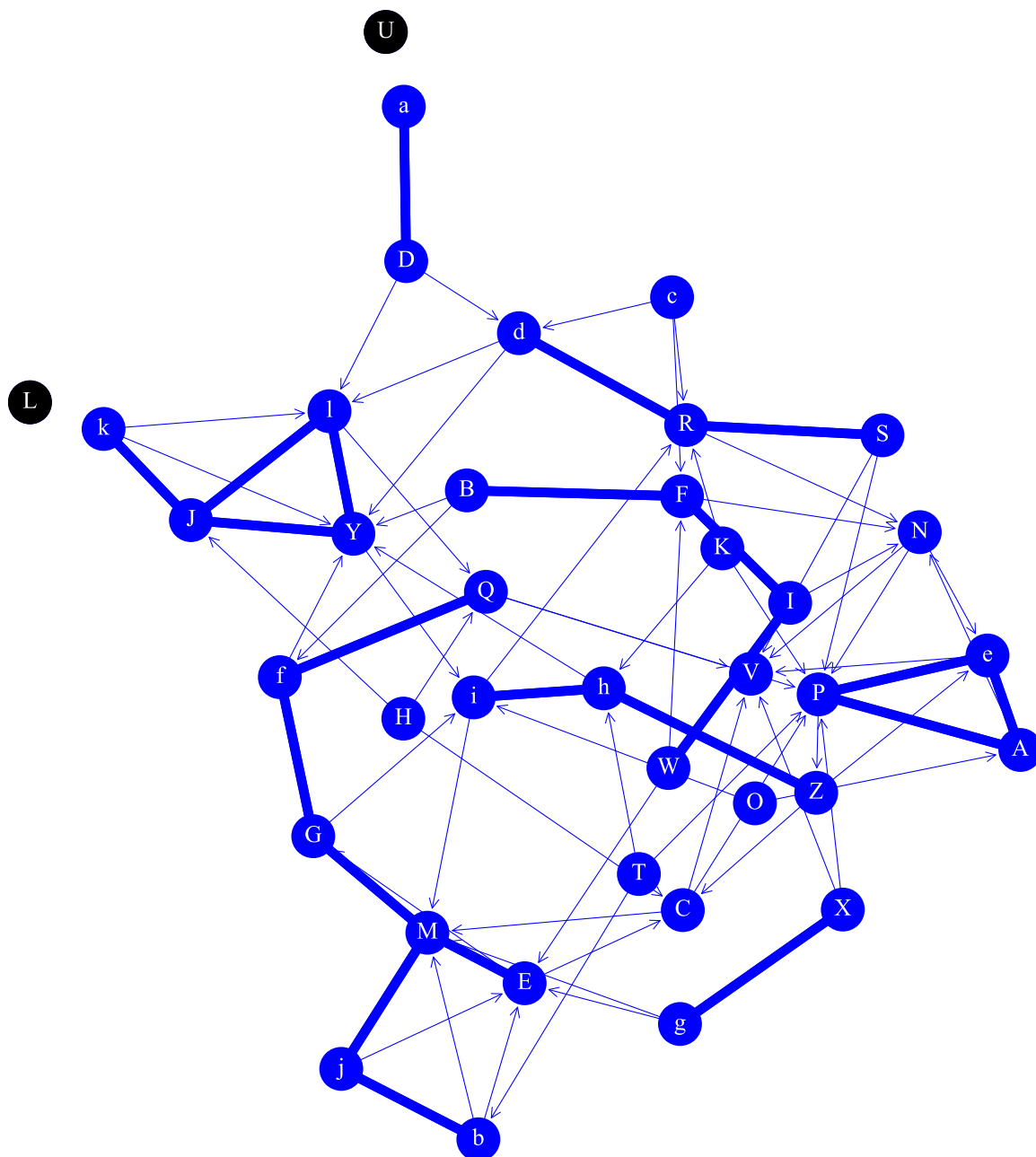


A. Whom would you choose to spend a free outing with?

NN 38, NE 102, NR 22, ND 7%, NC 17%, NT 28%, NR 43%



NN Nodes **NE** Links **NR** Reciprocal Links **ND** Density **NC** Centralization **NT** Transitivity **NR** Reciprocity

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

| ID | CHOICES | IC | KZ | PR | BT | CL | HU | ND |
|----|---------|------|------|------|------|------|------|----|
| A | N, P, e | 0.08 | 0.17 | 0.04 | 0.01 | 0.30 | 0.05 | |
| B | F, Y, f | 0.03 | 0.13 | 0.01 | 0.02 | 0.06 | 0.02 | |
| C | M, P, V | 0.08 | 0.16 | 0.03 | 0.05 | 0.28 | 0.08 | |
| D | a, d, l | 0.03 | 0.13 | 0.01 | 0.02 | 0.03 | 0.01 | |
| E | C, G, M | 0.14 | 0.19 | 0.04 | 0.05 | 0.28 | 0.02 | |
| F | B, I, N | 0.11 | 0.17 | 0.02 | 0.02 | 0.11 | 0.01 | |
| G | M, f, i | 0.08 | 0.17 | 0.04 | 0.08 | 0.29 | 0.02 | |
| H | C, J, Q | 0.00 | 0.12 | 0.01 | 0.00 | 0.00 | 0.01 | ← |
| I | F, N, W | 0.05 | 0.14 | 0.01 | 0.01 | 0.07 | 0.01 | |
| J | Y, k, l | 0.11 | 0.18 | 0.04 | 0.03 | 0.28 | 0.01 | |
| K | P, R, h | 0.00 | 0.12 | 0.01 | 0.00 | 0.00 | 0.06 | ← |
| L | - | 0.00 | 0.12 | 0.01 | 0.00 | 0.00 | 0.00 | ↔ |
| M | E, G, j | 0.19 | 0.23 | 0.06 | 0.11 | 0.35 | 0.01 | |
| N | P, V, e | 0.11 | 0.18 | 0.03 | 0.03 | 0.32 | 0.08 | |
| O | A, i | 0.00 | 0.12 | 0.01 | 0.00 | 0.00 | 0.01 | ← |
| P | A, Z, e | 0.24 | 0.25 | 0.07 | 0.12 | 0.42 | 0.02 | |
| Q | P, V, f | 0.08 | 0.16 | 0.03 | 0.05 | 0.27 | 0.07 | |
| R | N, S, d | 0.14 | 0.19 | 0.03 | 0.08 | 0.29 | 0.01 | |
| S | P, R, V | 0.03 | 0.13 | 0.01 | 0.01 | 0.22 | 0.08 | |
| T | P, b, h | 0.00 | 0.12 | 0.01 | 0.00 | 0.00 | 0.05 | ← |
| U | - | 0.00 | 0.12 | 0.01 | 0.00 | 0.00 | 0.00 | ↔ |
| V | - | 0.16 | 0.21 | 0.05 | 0.00 | 0.40 | 0.00 | → |
| W | E, F, I | 0.03 | 0.13 | 0.01 | 0.01 | 0.05 | 0.01 | |
| X | P, V, g | 0.03 | 0.13 | 0.01 | 0.00 | 0.03 | 0.07 | |
| Y | J, i, l | 0.19 | 0.23 | 0.06 | 0.13 | 0.37 | 0.01 | |
| Z | C, e, h | 0.05 | 0.16 | 0.03 | 0.08 | 0.31 | 0.03 | |
| a | D | 0.03 | 0.13 | 0.01 | 0.00 | 0.03 | 0.00 | |
| b | E, M, j | 0.05 | 0.14 | 0.01 | 0.00 | 0.21 | 0.02 | |
| c | F, R, d | 0.00 | 0.12 | 0.01 | 0.00 | 0.00 | 0.02 | ← |
| d | R, Y, l | 0.08 | 0.16 | 0.02 | 0.03 | 0.23 | 0.02 | |
| e | A, P, V | 0.11 | 0.19 | 0.06 | 0.01 | 0.34 | 0.07 | |
| f | G, Q, Y | 0.08 | 0.16 | 0.03 | 0.05 | 0.28 | 0.01 | |
| g | E, M, X | 0.03 | 0.13 | 0.01 | 0.01 | 0.03 | 0.02 | |
| h | Y, Z, i | 0.11 | 0.17 | 0.03 | 0.07 | 0.31 | 0.01 | |
| i | M, R, h | 0.11 | 0.18 | 0.05 | 0.14 | 0.35 | 0.04 | |
| j | E, M, b | 0.05 | 0.15 | 0.03 | 0.02 | 0.26 | 0.02 | |
| k | J, Y, l | 0.03 | 0.13 | 0.02 | 0.00 | 0.22 | 0.01 | |
| l | J, Q, Y | 0.14 | 0.20 | 0.05 | 0.05 | 0.29 | 0.01 | |

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

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

| ID | CHOICES | IC | KZ | PR | BT | CL | HU | ND |
|----|---------|----|----|----|----|----|----|----|
| A | N, P, e | 6 | 14 | 10 | 21 | 10 | 9 | |
| B | F, Y, f | 8 | 26 | 27 | 19 | 24 | 20 | |
| C | M, P, V | 6 | 18 | 18 | 12 | 13 | 1 | |
| D | a, d, l | 8 | 28 | 25 | 20 | 26 | 33 | |
| E | C, G, M | 4 | 6 | 11 | 11 | 13 | 17 | |
| F | B, I, N | 5 | 15 | 22 | 17 | 22 | 34 | |
| G | M, f, i | 6 | 12 | 9 | 6 | 12 | 12 | |
| H | C, J, Q | 9 | 29 | 31 | 29 | 27 | 31 | ← |
| I | F, N, W | 7 | 22 | 26 | 25 | 23 | 30 | |
| J | Y, k, l | 5 | 10 | 8 | 15 | 14 | 23 | |
| K | P, R, h | 9 | 29 | 31 | 29 | 27 | 7 | ← |
| L | - | 9 | 29 | 31 | 29 | 27 | 36 | ↔ |
| M | E, G, j | 2 | 3 | 2 | 4 | 4 | 25 | |
| N | P, V, e | 5 | 11 | 12 | 16 | 7 | 3 | |
| O | A, i | 9 | 29 | 31 | 29 | 27 | 24 | ← |
| P | A, Z, e | 1 | 1 | 1 | 3 | 1 | 19 | |
| Q | P, V, f | 6 | 16 | 16 | 13 | 16 | 4 | |
| R | N, S, d | 4 | 8 | 14 | 7 | 11 | 32 | |
| S | P, R, V | 8 | 24 | 24 | 26 | 19 | 2 | |
| T | P, b, h | 9 | 29 | 31 | 29 | 27 | 8 | ← |
| U | - | 9 | 29 | 31 | 29 | 27 | 36 | ↔ |
| V | - | 3 | 4 | 5 | 29 | 2 | 36 | → |
| W | E, F, I | 8 | 27 | 29 | 22 | 25 | 27 | |
| X | P, V, g | 8 | 28 | 30 | 27 | 26 | 6 | |
| Y | J, i, l | 2 | 2 | 3 | 2 | 3 | 29 | |
| Z | C, e, h | 7 | 20 | 13 | 5 | 8 | 11 | |
| a | D | 8 | 28 | 28 | 29 | 26 | 35 | |
| b | E, M, j | 7 | 23 | 23 | 28 | 21 | 15 | |
| c | F, R, d | 9 | 29 | 31 | 29 | 27 | 18 | ← |
| d | R, Y, l | 6 | 19 | 20 | 14 | 18 | 14 | |
| e | A, P, V | 5 | 7 | 4 | 23 | 6 | 5 | |
| f | G, Q, Y | 6 | 17 | 17 | 10 | 15 | 26 | |
| g | E, M, X | 8 | 28 | 30 | 24 | 26 | 16 | |
| h | Y, Z, i | 5 | 13 | 15 | 8 | 9 | 22 | |
| i | M, R, h | 5 | 9 | 7 | 1 | 5 | 10 | |
| j | E, M, b | 7 | 21 | 19 | 18 | 17 | 13 | |
| k | J, Y, l | 8 | 25 | 21 | 29 | 20 | 21 | |
| l | J, Q, Y | 4 | 5 | 6 | 9 | 12 | 28 | |

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

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

| RANK | IC | RANK | KZ | RANK | PR | RANK | BT | RANK | CL | RANK | HU |
|------|----|------|----|------|----|------|----|------|----|------|----|
| 1 | P | 1 | P | 1 | P | 1 | i | 1 | P | 1 | C |
| 2 | Y | 2 | Y | 2 | M | 2 | Y | 2 | V | 2 | S |
| 2 | M | 3 | M | 3 | Y | 3 | P | 3 | Y | 3 | N |
| 3 | V | 4 | V | 4 | e | 4 | M | 4 | M | 4 | Q |
| 4 | l | 5 | l | 5 | V | 5 | Z | 5 | i | 5 | e |
| 4 | E | 6 | E | 6 | l | 6 | G | 6 | e | 6 | X |
| 4 | R | 7 | e | 7 | i | 7 | R | 7 | N | 7 | K |
| 5 | i | 8 | R | 8 | J | 8 | h | 8 | Z | 8 | T |
| 5 | h | 9 | i | 9 | G | 9 | l | 9 | h | 9 | A |
| 5 | F | 10 | J | 10 | A | 10 | f | 10 | A | 10 | i |
| 5 | e | 11 | N | 11 | E | 11 | E | 11 | R | 11 | Z |
| 5 | J | 12 | G | 12 | N | 12 | C | 12 | l | 12 | G |
| 5 | N | 13 | h | 13 | Z | 13 | Q | 12 | G | 13 | j |
| 6 | f | 14 | A | 14 | R | 14 | d | 13 | C | 14 | d |
| 6 | d | 15 | F | 15 | h | 15 | J | 13 | E | 15 | b |
| 6 | Q | 16 | Q | 16 | Q | 16 | N | 14 | J | 16 | g |
| 6 | A | 17 | f | 17 | f | 17 | F | 15 | f | 17 | E |
| 6 | C | 18 | C | 18 | C | 18 | j | 16 | Q | 18 | c |
| 6 | G | 19 | d | 19 | j | 19 | B | 17 | j | 19 | P |
| 7 | b | 20 | Z | 20 | d | 20 | D | 18 | d | 20 | B |
| 7 | j | 21 | j | 21 | k | 21 | A | 19 | S | 21 | k |
| 7 | I | 22 | I | 22 | F | 22 | W | 20 | k | 22 | h |
| 7 | Z | 23 | b | 23 | b | 23 | e | 21 | b | 23 | J |
| 8 | B | 24 | S | 24 | S | 24 | g | 22 | F | 24 | O |
| 8 | g | 25 | k | 25 | D | 25 | I | 23 | I | 25 | M |
| 8 | D | 26 | B | 26 | I | 26 | S | 24 | B | 26 | f |
| 8 | S | 27 | W | 27 | B | 27 | X | 25 | W | 27 | W |
| 8 | X | 28 | a | 28 | a | 28 | b | 26 | a | 28 | l |
| 8 | W | 28 | D | 29 | W | 29 | H | 26 | D | 29 | Y |
| 8 | k | 28 | g | 30 | g | 29 | K | 26 | g | 30 | I |
| 8 | a | 28 | X | 30 | X | 29 | L | 26 | X | 31 | H |
| 9 | O | 29 | L | 31 | U | 29 | V | 27 | L | 32 | R |
| 9 | c | 29 | H | 31 | T | 29 | c | 27 | U | 33 | D |
| 9 | H | 29 | c | 31 | O | 29 | a | 27 | c | 34 | F |
| 9 | K | 29 | U | 31 | H | 29 | k | 27 | T | 35 | a |
| 9 | U | 29 | T | 31 | L | 29 | T | 27 | H | 36 | V |
| 9 | T | 29 | K | 31 | c | 29 | U | 27 | O | 36 | U |
| 9 | L | 29 | O | 31 | K | 29 | O | 27 | K | 36 | L |

IC In-Degree KZ Katz BT Betweenness CL Closeness HU Hub

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

Non reciprocal edges

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

- A · N
- B · Y
- B · f
- C · M
- C · P
- C · V
- D · d
- D · l
- E · C
- E · G
- F · N
- G · i
- H · C
- H · J
- H · Q
- I · N
- K · P
- K · R
- K · h
- N · P
- N · V
- N · e
- O · A
- O · i
- P · Z
- Q · P
- Q · V
- R · N
- S · P
- S · V
- T · P
- T · b
- T · h
- W · E
- W · F
- X · P
- X · V
- Y · i
- Z · C
- Z · e
- b · E
- b · M
- c · F
- c · R
- c · d
- d · Y
- d · l
- e · V
- f · Y
- g · E
- g · M
- h · Y
- i · M
- i · R
- j · E
- k · Y
- k · l
- l · Q

Reciprocal edges

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

- A · P
- A · e
- B · F
- D · a
- E · M
- F · I
- G · M
- G · f
- I · W
- J · Y
- J · k
- J · l
- M · j
- P · e
- Q · f
- R · S
- R · d
- X · g
- Y · l
- Z · h
- b · j
- h · i

Half symmetrical edges

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

- Q · V
- Q · f

Reversed half symmetrical edges

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

- f · Q

Full symmetrical edges

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

No edge of this type

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

Cliques

Each node can reach every other node: a) without intermediaries; b) ignoring the direction of connections

4

E · M · b · j

J · Y · k · l

A · N · P · e

3

G · M · i

C · E · M

E · M · g

E · G · M

N · V · e

R · c · d

D · d · l

Y · d · l

F · I · N

F · I · W

B · Y · f

Y · h · i

C · P · Z

P · Z · e

Strongly Connected Groups

Each node can reach every other node: a) with or without intermediaries; b) following the direction of connections

22

A · C · E · G · J · M · N · P · Q · R · S · Y · Z · b · d · e · f · h · i · j · k · l

4

B · F · I · W

Weakly Connected Groups

Each node can reach every other node: a) with or without intermediaries; b) ignoring the direction of connections

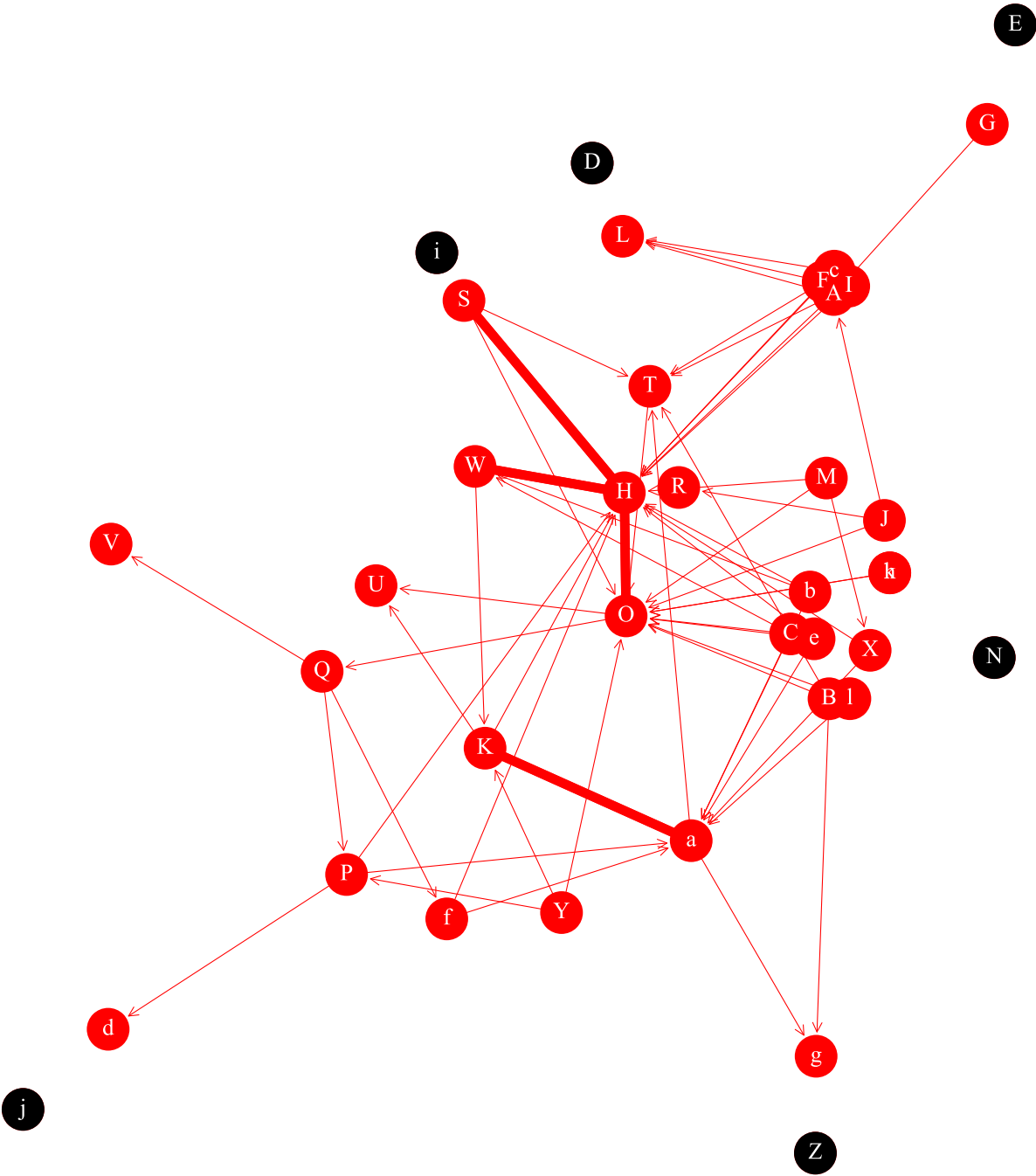
36

A · B · C · D · E · F · G · H · I · J · K · M · N · O · P · Q · R · S · T · V · W · X · Y · Z · a · b · c · d · e · f · g · h · i · j · k · l

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B. Whom would you not choose to spend a free outing with?

NN 38, NE 63, NR 4, ND 4%, NC 31%, NT 12%, NR 13%



NN Nodes NE Links NR Reciprocal Links ND Density NC Centralization NT Transitivity NR Reciprocity

This report is designed as a support tool to facilitate decision-making and does not replace the professional judgment of industry experts. Interpretations drawn from the report should be integrated with other information related to the specific evaluation context.

B. Whom would you not choose to spend a free outing with?

| ID | CHOICES | IC | KZ | PR | BT | CL | HU | ND |
|----|---------|------|------|------|------|------|------|----|
| A | H, L, T | 0.05 | 0.15 | 0.02 | 0.01 | 0.05 | 0.05 | |
| B | O, T, g | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.03 | ← |
| C | O, W, a | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.05 | ← |
| D | - | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | ↔ |
| E | - | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | ↔ |
| F | H, L, T | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.05 | ← |
| G | A | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | ← |
| H | O, S, W | 0.38 | 0.35 | 0.15 | 0.10 | 0.47 | 0.03 | |
| I | H | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.03 | ← |
| J | A, O, R | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.02 | ← |
| K | H, U, a | 0.08 | 0.18 | 0.05 | 0.02 | 0.25 | 0.06 | |
| L | - | 0.08 | 0.17 | 0.02 | 0.00 | 0.10 | 0.00 | → |
| M | H, O, X | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.06 | ← |
| N | - | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | ↔ |
| O | H, Q, U | 0.32 | 0.31 | 0.14 | 0.13 | 0.42 | 0.04 | |
| P | H, a, d | 0.05 | 0.16 | 0.02 | 0.03 | 0.21 | 0.06 | |
| Q | P, V, f | 0.03 | 0.16 | 0.05 | 0.08 | 0.27 | 0.00 | |
| R | - | 0.03 | 0.14 | 0.01 | 0.00 | 0.03 | 0.00 | → |
| S | H, O, T | 0.03 | 0.16 | 0.05 | 0.01 | 0.28 | 0.06 | |
| T | O | 0.14 | 0.21 | 0.05 | 0.01 | 0.30 | 0.02 | |
| U | - | 0.05 | 0.18 | 0.06 | 0.00 | 0.29 | 0.00 | → |
| V | - | 0.03 | 0.14 | 0.02 | 0.00 | 0.21 | 0.00 | → |
| W | H, K | 0.08 | 0.19 | 0.06 | 0.02 | 0.30 | 0.04 | |
| X | H, a | 0.03 | 0.14 | 0.01 | 0.00 | 0.03 | 0.05 | |
| Y | K, O, P | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.03 | ← |
| Z | - | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | ↔ |
| a | K, T, g | 0.22 | 0.24 | 0.05 | 0.03 | 0.25 | 0.02 | |
| b | H, W, a | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.06 | ← |
| c | H, L | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.04 | ← |
| d | - | 0.03 | 0.14 | 0.02 | 0.00 | 0.17 | 0.00 | → |
| e | H, O, a | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.07 | ← |
| f | H, a | 0.03 | 0.14 | 0.02 | 0.01 | 0.20 | 0.05 | |
| g | - | 0.05 | 0.16 | 0.03 | 0.00 | 0.21 | 0.00 | → |
| h | O | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.02 | ← |
| i | - | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | ↔ |
| j | - | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | ↔ |
| k | O | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.02 | ← |
| l | O, a | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 | 0.04 | ← |

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

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B. Whom would you not choose to spend a free outing with?

| ID | CHOICES | IC | KZ | PR | BT | CL | HU | ND |
|----|---------|----|----|----|----|----|----|----|
| A | H, L, T | 6 | 13 | 14 | 8 | 15 | 8 | |
| B | O, T, g | 8 | 17 | 17 | 13 | 17 | 15 | ← |
| C | O, W, a | 8 | 17 | 17 | 13 | 17 | 9 | ← |
| D | - | 8 | 17 | 17 | 13 | 17 | 23 | ↔ |
| E | - | 8 | 17 | 17 | 13 | 17 | 23 | ↔ |
| F | H, L, T | 8 | 17 | 17 | 13 | 17 | 8 | ← |
| G | A | 8 | 17 | 17 | 13 | 17 | 22 | ← |
| H | O, S, W | 1 | 1 | 1 | 2 | 1 | 16 | |
| I | H | 8 | 17 | 17 | 13 | 17 | 14 | ← |
| J | A, O, R | 8 | 17 | 17 | 13 | 17 | 18 | ← |
| K | H, U, a | 5 | 6 | 7 | 7 | 8 | 4 | |
| L | - | 5 | 8 | 13 | 13 | 14 | 23 | → |
| M | H, O, X | 8 | 17 | 17 | 13 | 17 | 5 | ← |
| N | - | 8 | 17 | 17 | 13 | 17 | 23 | ↔ |
| O | H, Q, U | 2 | 2 | 2 | 1 | 2 | 12 | |
| P | H, a, d | 6 | 12 | 11 | 5 | 10 | 6 | |
| Q | P, V, f | 7 | 11 | 9 | 3 | 7 | 21 | |
| R | - | 7 | 16 | 16 | 13 | 16 | 23 | → |
| S | H, O, T | 7 | 10 | 6 | 11 | 6 | 2 | |
| T | O | 4 | 4 | 8 | 9 | 3 | 19 | |
| U | - | 6 | 7 | 3 | 13 | 5 | 23 | → |
| V | - | 7 | 14 | 12 | 13 | 9 | 23 | → |
| W | H, K | 5 | 5 | 4 | 6 | 4 | 13 | |
| X | H, a | 7 | 16 | 16 | 12 | 16 | 7 | |
| Y | K, O, P | 8 | 17 | 17 | 13 | 17 | 17 | ← |
| Z | - | 8 | 17 | 17 | 13 | 17 | 23 | ↔ |
| a | K, T, g | 3 | 3 | 5 | 4 | 8 | 20 | |
| b | H, W, a | 8 | 17 | 17 | 13 | 17 | 3 | ← |
| c | H, L | 8 | 17 | 17 | 13 | 17 | 11 | ← |
| d | - | 7 | 15 | 15 | 13 | 13 | 23 | → |
| e | H, O, a | 8 | 17 | 17 | 13 | 17 | 1 | ← |
| f | H, a | 7 | 14 | 12 | 10 | 12 | 7 | |
| g | - | 6 | 9 | 10 | 13 | 11 | 23 | → |
| h | O | 8 | 17 | 17 | 13 | 17 | 19 | ← |
| i | - | 8 | 17 | 17 | 13 | 17 | 23 | ↔ |
| j | - | 8 | 17 | 17 | 13 | 17 | 23 | ↔ |
| k | O | 8 | 17 | 17 | 13 | 17 | 19 | ← |
| l | O, a | 8 | 17 | 17 | 13 | 17 | 10 | ← |

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

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B. Whom would you not choose to spend a free outing with?

| RANK | IC | RANK | KZ | RANK | PR | RANK | BT | RANK | CL | RANK | HU |
|------|----|------|----|------|----|------|----|------|----|------|----|
| 1 | H | 1 | H | 1 | H | 1 | O | 1 | H | 1 | e |
| 2 | O | 2 | O | 2 | O | 2 | H | 2 | O | 2 | S |
| 3 | a | 3 | a | 3 | U | 3 | Q | 3 | T | 3 | b |
| 4 | T | 4 | T | 4 | W | 4 | a | 4 | W | 4 | K |
| 5 | W | 5 | W | 5 | a | 5 | P | 5 | U | 5 | M |
| 5 | K | 6 | K | 6 | S | 6 | W | 6 | S | 6 | P |
| 5 | L | 7 | U | 7 | K | 7 | K | 7 | Q | 7 | f |
| 6 | A | 8 | L | 8 | T | 8 | A | 8 | a | 7 | X |
| 6 | g | 9 | g | 9 | Q | 9 | T | 8 | K | 8 | A |
| 6 | U | 10 | S | 10 | g | 10 | f | 9 | V | 8 | F |
| 6 | P | 11 | Q | 11 | P | 11 | S | 10 | P | 9 | C |
| 7 | f | 12 | P | 12 | f | 12 | X | 11 | g | 10 | l |
| 7 | d | 13 | A | 12 | V | 13 | L | 12 | f | 11 | c |
| 7 | X | 14 | f | 13 | L | 13 | j | 13 | d | 12 | O |
| 7 | V | 14 | V | 14 | A | 13 | i | 14 | L | 13 | W |
| 7 | R | 15 | d | 15 | d | 13 | h | 15 | A | 14 | I |
| 7 | S | 16 | R | 16 | R | 13 | g | 16 | R | 15 | B |
| 7 | Q | 16 | X | 16 | X | 13 | B | 16 | X | 16 | H |
| 8 | N | 17 | N | 17 | M | 13 | e | 17 | M | 17 | Y |
| 8 | j | 17 | j | 17 | j | 13 | d | 17 | j | 18 | J |
| 8 | i | 17 | i | 17 | i | 13 | c | 17 | i | 19 | k |
| 8 | h | 17 | h | 17 | h | 13 | b | 17 | h | 19 | h |
| 8 | B | 17 | B | 17 | B | 13 | C | 17 | B | 19 | T |
| 8 | C | 17 | e | 17 | C | 13 | Z | 17 | C | 20 | a |
| 8 | e | 17 | c | 17 | e | 13 | Y | 17 | e | 21 | Q |
| 8 | D | 17 | b | 17 | c | 13 | D | 17 | D | 22 | G |
| 8 | c | 17 | Z | 17 | b | 13 | V | 17 | c | 23 | U |
| 8 | b | 17 | M | 17 | D | 13 | U | 17 | E | 23 | j |
| 8 | Z | 17 | Y | 17 | Z | 13 | E | 17 | N | 23 | i |
| 8 | Y | 17 | D | 17 | Y | 13 | k | 17 | Z | 23 | g |
| 8 | F | 17 | E | 17 | E | 13 | R | 17 | Y | 23 | L |
| 8 | G | 17 | F | 17 | F | 13 | F | 17 | F | 23 | N |
| 8 | I | 17 | k | 17 | G | 13 | G | 17 | G | 23 | D |
| 8 | J | 17 | G | 17 | I | 13 | I | 17 | I | 23 | Z |
| 8 | M | 17 | I | 17 | k | 13 | N | 17 | J | 23 | R |
| 8 | k | 17 | J | 17 | J | 13 | M | 17 | k | 23 | V |
| 8 | E | 17 | C | 17 | N | 13 | J | 17 | b | 23 | d |
| 8 | l | 17 | l | 17 | l | 13 | l | 17 | l | 23 | E |

IC In-Degree KZ Katz BT Betweenness CL Closeness HU Hub

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B. Whom would you not choose to spend a free outing with?

Non reciprocal edges

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

- A · H

A · L

A · T

B · O

B · T

B · g

C · O

C · W

C · a

F · H

F · L

F · T

G · A

I · H

J · A
- J · O

J · R

K · H

K · U

M · H

M · O

M · X

O · Q

O · U

P · H

P · a

P · d

Q · P

Q · V

Q · f
- S · O

S · T

T · O

W · K

X · H

X · a

Y · K

Y · O

Y · P

a · T

a · g

b · H

b · W

b · a

c · H
- c · L

e · H

e · O

e · a

f · H

f · a

h · O

k · O

l · O

l · a

Reciprocal edges

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

- H · O

H · S

H · W

K · a

Half symmetrical edges

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

- Q · V

Q · f

Reversed half symmetrical edges

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

- Q · f

Full symmetrical edges

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

No edge of this type

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B. Whom would you not choose to spend a free outing with?

Cliques

Each node can reach every other node: a) without intermediaries; b) ignoring the direction of connections

3H · K · W

B · O · T

O · S · T

H · M · O

H · O · S

H · O · e

H · W · b

H · M · X

Strongly Connected Groups

Each node can reach every other node: a) with or without intermediaries; b) following the direction of connections

10H · K · O · P · Q · S · T · W · a · f

Weakly Connected Groups

Each node can reach every other node: a) with or without intermediaries; b) ignoring the direction of connections

32A · B · C · F · G · H · I · J · K · L · M · O · P · Q · R · S · T · U · V · W · X · Y · a · b · c · d · e · f · g · h · k · l

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

NN 38, NE 102, NR 22, ND 7%, NC 17%, NT 28%, NR 43%

| ID | Count | Min | Max | Median | Mean | SD | CV | SK | KT | P25 | P75 |
|------------------------|-------|------|------|--------|------|------|------|-------|-------|------|------|
| In degree Centrality | 38.00 | 0.00 | 0.24 | 0.07 | 0.07 | 0.06 | 0.84 | 0.80 | 0.28 | 0.03 | 0.11 |
| PageRank Centrality | 38.00 | 0.01 | 0.07 | 0.02 | 0.03 | 0.02 | 0.73 | 0.62 | -0.78 | 0.01 | 0.04 |
| Katz Centrality | 38.00 | 0.12 | 0.25 | 0.16 | 0.16 | 0.04 | 0.23 | 0.68 | -0.13 | 0.13 | 0.18 |
| Betweenness Centrality | 38.00 | 0.00 | 0.14 | 0.02 | 0.03 | 0.04 | 1.18 | 1.24 | 0.59 | 0.00 | 0.05 |
| Closeness Centrality | 38.00 | 0.00 | 0.42 | 0.25 | 0.19 | 0.14 | 0.75 | -0.23 | -1.59 | 0.03 | 0.30 |
| Hub Centrality | 38.00 | 0.00 | 0.08 | 0.02 | 0.03 | 0.03 | 1.00 | 1.09 | -0.30 | 0.01 | 0.04 |

NN Nodes NE Links NR Reciprocal Links ND Density NC Centralization NT Transitivity NR Reciprocity Count Frequency Sum Sum Min Minimum Value Max Maximum Value Median Median Mean Mean SD Standard Deviation CV Coefficient of Variation SK Skewness KT Kurtosis P25 25th Percentile P75 75th Percentile

B. Whom would you not choose to spend a free outing with?

NN 38, NE 63, NR 4, ND 4%, NC 31%, NT 12%, NR 13%

| ID | Count | Min | Max | Median | Mean | SD | CV | SK | KT | P25 | P75 |
|------------------------|-------|------|------|--------|------|------|------|------|-------|------|------|
| In degree Centrality | 38.00 | 0.00 | 0.38 | 0.00 | 0.04 | 0.09 | 1.92 | 2.83 | 8.08 | 0.00 | 0.05 |
| PageRank Centrality | 38.00 | 0.01 | 0.15 | 0.01 | 0.03 | 0.03 | 1.24 | 2.65 | 7.45 | 0.01 | 0.03 |
| Katz Centrality | 38.00 | 0.13 | 0.35 | 0.13 | 0.15 | 0.05 | 0.32 | 2.72 | 7.73 | 0.13 | 0.16 |
| Betweenness Centrality | 38.00 | 0.00 | 0.13 | 0.00 | 0.01 | 0.03 | 2.41 | 3.02 | 8.82 | 0.00 | 0.01 |
| Closeness Centrality | 38.00 | 0.00 | 0.47 | 0.00 | 0.11 | 0.14 | 1.32 | 0.99 | -0.21 | 0.00 | 0.21 |
| Hub Centrality | 38.00 | 0.00 | 0.07 | 0.02 | 0.03 | 0.02 | 0.91 | 0.24 | -1.34 | 0.00 | 0.05 |

NN Nodes NE Links NR Reciprocal Links ND Density NC Centralization NT Transitivity NR Reciprocity Count Frequency Sum Sum Min Minimum Value Max Maximum Value Median Median Mean Mean SD Standard Deviation CV Coefficient of Variation SK Skewness KT Kurtosis P25 25th Percentile P75 75th Percentile

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DEMO 2 | GROUP 1

SOCIOGRAM

| ID | RP | RR | GP | GR | MP | MR | BL | OR | IM | AI | II | ST |
|----|----|----|----|----|----|----|-----|----|----|-----|----|-------------|
| A | 3 | 2 | 3 | 3 | 2 | 0 | 1 | 0 | 5 | 1 | 5 | ambitendent |
| B | 1 | 0 | 3 | 3 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | marginal |
| C | 3 | 0 | 3 | 3 | 0 | 0 | 3 | 0 | 3 | 3 | 3 | appreciated |
| D | 1 | 0 | 3 | 0 | 1 | 0 | 1 | 3 | 1 | 4 | 2 | marginal |
| E | 5 | 0 | 3 | 0 | 1 | 0 | 5 | 3 | 5 | 8 | 6 | popular |
| F | 4 | 0 | 3 | 3 | 2 | 0 | 4 | 0 | 4 | 4 | 6 | appreciated |
| G | 3 | 0 | 3 | 1 | 2 | 0 | 3 | 2 | 3 | 5 | 5 | appreciated |
| H | 0 | 14 | 3 | 3 | 0 | 3 | -14 | 0 | 14 | -14 | 0 | rejected |
| I | 2 | 0 | 3 | 1 | 2 | 0 | 2 | 2 | 2 | 4 | 4 | appreciated |
| J | 4 | 0 | 3 | 3 | 3 | 0 | 4 | 0 | 4 | 4 | 7 | appreciated |
| K | 0 | 3 | 3 | 3 | 0 | 1 | -3 | 0 | 3 | -3 | 0 | disliked |
| L | 0 | 3 | 0 | 0 | 0 | 0 | -3 | 0 | 3 | -3 | 0 | disliked |
| M | 7 | 0 | 3 | 3 | 3 | 0 | 7 | 0 | 7 | 7 | 10 | popular |
| N | 4 | 0 | 3 | 0 | 0 | 0 | 4 | 3 | 4 | 7 | 4 | appreciated |
| O | 0 | 12 | 2 | 3 | 0 | 1 | -12 | -1 | 12 | -13 | 0 | rejected |
| P | 9 | 2 | 3 | 3 | 2 | 0 | 7 | 0 | 11 | 7 | 11 | popular |
| Q | 3 | 1 | 3 | 3 | 1 | 0 | 2 | 0 | 4 | 2 | 4 | appreciated |
| R | 5 | 1 | 3 | 0 | 2 | 0 | 4 | 3 | 6 | 7 | 7 | appreciated |
| S | 1 | 1 | 3 | 3 | 1 | 1 | 0 | 0 | 2 | 0 | 2 | ambitendent |
| T | 0 | 5 | 3 | 1 | 0 | 0 | -5 | 2 | 5 | -3 | 0 | rejected |
| U | 0 | 2 | 0 | 0 | 0 | 0 | -2 | 0 | 2 | -2 | 0 | disliked |
| V | 6 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 7 | 5 | 6 | popular |
| W | 1 | 3 | 3 | 2 | 1 | 1 | -2 | 1 | 4 | -1 | 2 | disliked |
| X | 1 | 1 | 3 | 2 | 1 | 0 | 0 | 1 | 2 | 1 | 2 | ambitendent |
| Y | 7 | 0 | 3 | 3 | 2 | 0 | 7 | 0 | 7 | 7 | 9 | popular |
| Z | 2 | 0 | 3 | 0 | 1 | 0 | 2 | 3 | 2 | 5 | 3 | appreciated |
| a | 1 | 8 | 1 | 3 | 1 | 1 | -7 | -2 | 9 | -9 | 2 | rejected |
| b | 2 | 0 | 3 | 3 | 1 | 0 | 2 | 0 | 2 | 2 | 3 | appreciated |
| c | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | marginal |
| d | 3 | 1 | 3 | 0 | 1 | 0 | 2 | 3 | 4 | 5 | 4 | appreciated |
| e | 4 | 0 | 3 | 3 | 2 | 0 | 4 | 0 | 4 | 4 | 6 | appreciated |
| f | 3 | 1 | 3 | 2 | 2 | 0 | 2 | 1 | 4 | 3 | 5 | appreciated |
| g | 1 | 2 | 3 | 0 | 1 | 0 | -1 | 3 | 3 | 2 | 2 | ambitendent |
| h | 4 | 0 | 3 | 1 | 2 | 0 | 4 | 2 | 4 | 6 | 6 | appreciated |
| i | 4 | 0 | 3 | 0 | 1 | 0 | 4 | 3 | 4 | 7 | 5 | appreciated |
| j | 2 | 0 | 3 | 0 | 2 | 0 | 2 | 3 | 2 | 5 | 4 | appreciated |
| k | 1 | 0 | 3 | 1 | 1 | 0 | 1 | 2 | 1 | 3 | 2 | marginal |
| l | 5 | 0 | 3 | 2 | 2 | 0 | 5 | 1 | 5 | 6 | 7 | popular |

RP Received Preferences **RR** Received Rejections **GP** Given Preferences **GR** Given Rejections **MP** Mutual Preferences **MR** Mutual Rejections **BL** Balance **OR** Orientation **IM** Impact **AI** Affiliation Index **II** Influence Index **ST** Sociometric Status

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DEMO 2 | GROUP 1

SOCIOGRAM | NODES ORDERED BY METRIC

| RANK | BL | RANK | IM | RANK | AI | RANK | II | RANK | ST |
|------|----|------|----|------|----|------|----|-------------|----|
| 1 | P | 1 | H | 1 | E | 1 | P | popular | E |
| 1 | M | 2 | O | 2 | M | 2 | M | popular | M |
| 1 | Y | 3 | P | 2 | R | 3 | Y | popular | P |
| 2 | l | 4 | a | 2 | P | 4 | l | popular | V |
| 2 | V | 5 | Y | 2 | N | 4 | J | popular | Y |
| 2 | E | 5 | V | 2 | Y | 4 | R | popular | l |
| 3 | F | 5 | M | 2 | i | 5 | h | appreciated | C |
| 3 | R | 6 | R | 3 | h | 5 | E | appreciated | F |
| 3 | e | 7 | A | 3 | l | 5 | F | appreciated | G |
| 3 | i | 7 | T | 4 | j | 5 | e | appreciated | I |
| 3 | N | 7 | l | 4 | V | 5 | V | appreciated | J |
| 3 | h | 7 | E | 4 | d | 6 | i | appreciated | N |
| 3 | J | 8 | J | 4 | Z | 6 | f | appreciated | Q |
| 4 | C | 8 | N | 4 | G | 6 | A | appreciated | R |
| 4 | G | 8 | i | 5 | D | 6 | G | appreciated | Z |
| 5 | I | 8 | h | 5 | I | 7 | j | appreciated | b |
| 5 | d | 8 | Q | 5 | e | 7 | Q | appreciated | d |
| 5 | j | 8 | F | 5 | F | 7 | I | appreciated | e |
| 5 | Q | 8 | f | 5 | J | 7 | d | appreciated | f |
| 5 | b | 8 | e | 6 | f | 7 | N | appreciated | h |
| 5 | Z | 8 | W | 6 | C | 8 | Z | appreciated | i |
| 5 | f | 8 | d | 6 | k | 8 | C | appreciated | j |
| 6 | A | 9 | L | 7 | Q | 8 | b | ambitendent | A |
| 6 | k | 9 | g | 7 | g | 9 | B | ambitendent | S |
| 6 | D | 9 | C | 7 | b | 9 | g | ambitendent | X |
| 6 | B | 9 | G | 8 | c | 9 | D | ambitendent | g |
| 7 | X | 9 | K | 8 | A | 9 | S | marginal | B |
| 7 | c | 10 | Z | 8 | X | 9 | X | marginal | D |
| 7 | S | 10 | b | 8 | B | 9 | W | marginal | c |
| 8 | g | 10 | X | 9 | S | 9 | k | marginal | k |
| 9 | U | 10 | U | 10 | W | 9 | a | disliked | K |
| 9 | W | 10 | I | 11 | U | 10 | H | disliked | L |
| 10 | L | 10 | j | 12 | T | 10 | c | disliked | U |
| 10 | K | 10 | S | 12 | L | 10 | U | disliked | W |
| 11 | T | 11 | B | 12 | K | 10 | T | rejected | H |
| 12 | a | 11 | D | 13 | a | 10 | K | rejected | O |
| 13 | O | 11 | k | 14 | O | 10 | L | rejected | T |
| 14 | H | 12 | c | 15 | H | 10 | O | rejected | a |

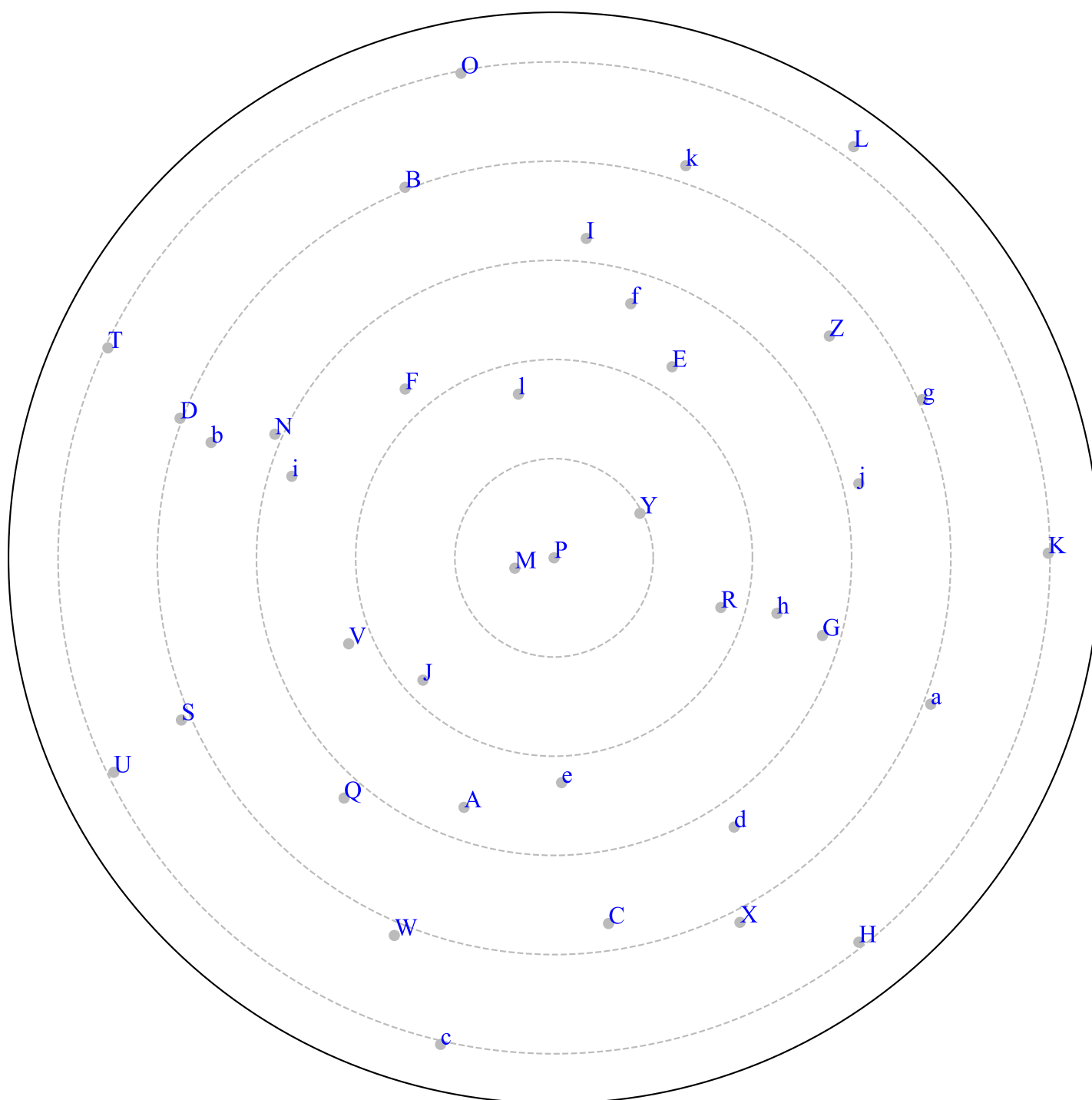
RP Received Preferences RR Received Rejections GP Given Preferences GR Given Rejections BL Balance IM Impact AI Affiliation Index II Influence Index

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DEMO 2 | GROUP 1

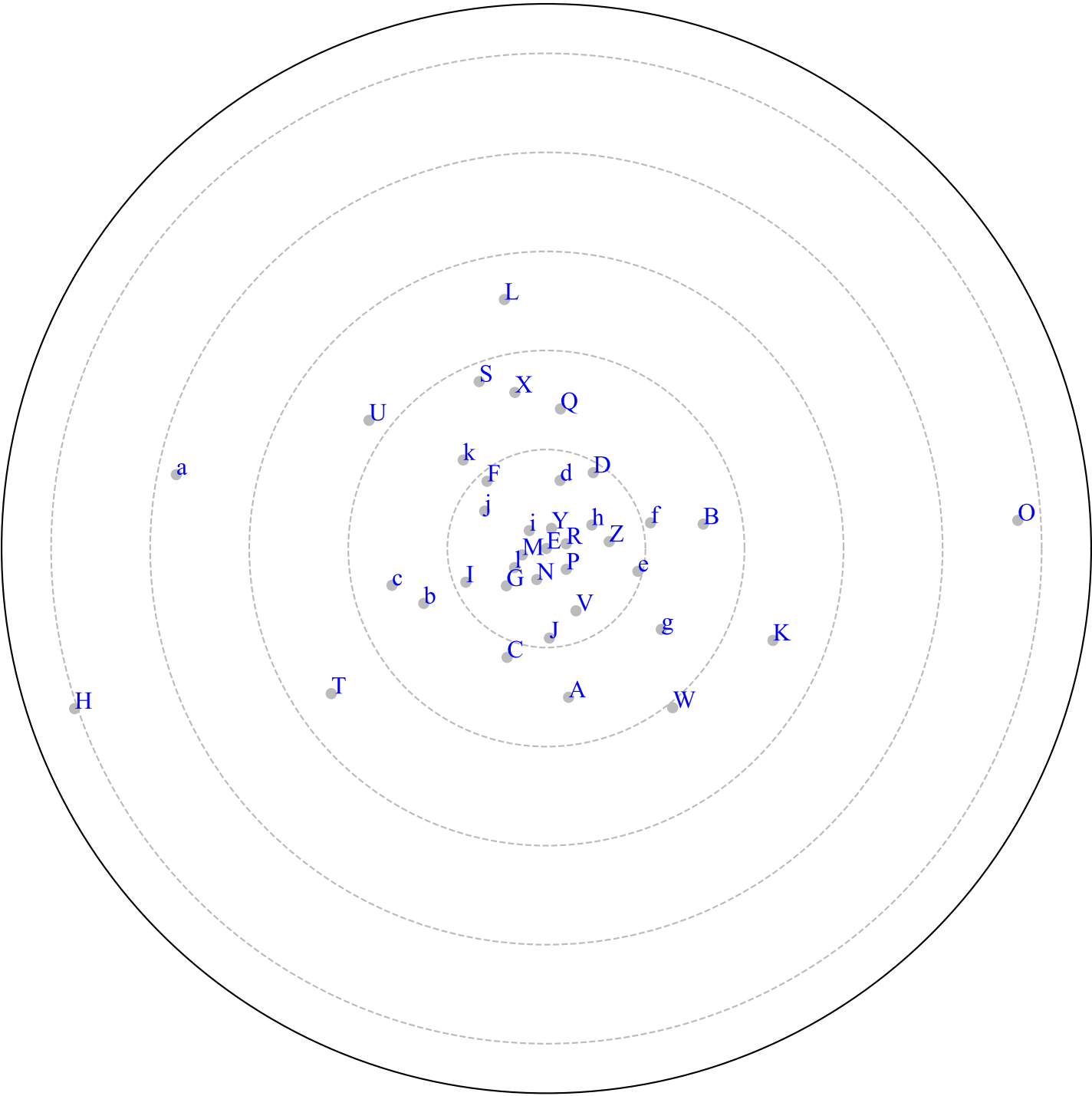
SOCIOGRAM | GRAPH

Influence index



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Affiliation index



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DEMO 2 | GROUP 1

SOCIOGRAM | DESCRIPTIVE

Type I cohesion index : 43.14% Type II cohesion index : 0.58
Type I conflict index : 12.70% Type II conflict index : 0.11

| ID | Count | Min | Max | Median | Mean | SD | CV | SK | KT | P25 | P75 |
|----------------------|-------|--------|-------|--------|------|------|------|-------|-------|------|------|
| Received preferences | 38.00 | 0.00 | 9.00 | 2.50 | 2.68 | 2.27 | 0.84 | 0.80 | 0.28 | 1.00 | 4.00 |
| Received rejections | 38.00 | 0.00 | 14.00 | 0.00 | 1.66 | 3.18 | 1.92 | 2.83 | 8.08 | 0.00 | 2.00 |
| Given Preferences | 38.00 | 0.00 | 3.00 | 3.00 | 2.68 | 0.87 | 0.33 | -2.66 | 5.73 | 3.00 | 3.00 |
| Given rejections | 38.00 | 0.00 | 3.00 | 2.00 | 1.66 | 1.32 | 0.80 | -0.21 | -1.76 | 0.00 | 3.00 |
| Mutual preferences | 38.00 | 0.00 | 3.00 | 1.00 | 1.16 | 0.89 | 0.77 | 0.17 | -0.83 | 0.25 | 2.00 |
| Mutual rejections | 38.00 | 0.00 | 3.00 | 0.00 | 0.21 | 0.58 | 2.74 | 3.55 | 14.69 | 0.00 | 0.00 |
| Balance | 38.00 | -14.00 | 7.00 | 2.00 | 1.03 | 4.61 | 4.49 | -1.61 | 3.18 | 0.00 | 4.00 |
| Orientation | 38.00 | -2.00 | 3.00 | 0.50 | 1.03 | 1.38 | 1.35 | 0.21 | -1.01 | 0.00 | 2.00 |
| Impact | 38.00 | 0.00 | 14.00 | 4.00 | 4.34 | 3.05 | 0.70 | 1.52 | 2.49 | 2.00 | 5.00 |
| Affiliation index | 38.00 | -14.00 | 8.00 | 3.50 | 2.05 | 5.19 | 2.53 | -1.67 | 2.92 | 1.00 | 5.00 |
| Influence index | 38.00 | 0.00 | 11.00 | 4.00 | 3.84 | 2.88 | 0.75 | 0.52 | -0.12 | 2.00 | 6.00 |

Count Frequency **Sum** Sum **Min** Minimum Value **Max** Maximum Value **Median** Median **Mean** Mean **SD** Standard Deviation **CV** Coefficient of Variation **SK** Skewness **KT** Kurtosis **P25** 25th Percentile **P75** 75th Percentile