

CASE NAME: THE SOCIAL NETWORK

ATTENDING OFFICER(S): DREW HOSKINS
CHICAGO POLICE DEPARTMENT
CRIME LOCATION: FRIENDS SUSHI

SOLVED!

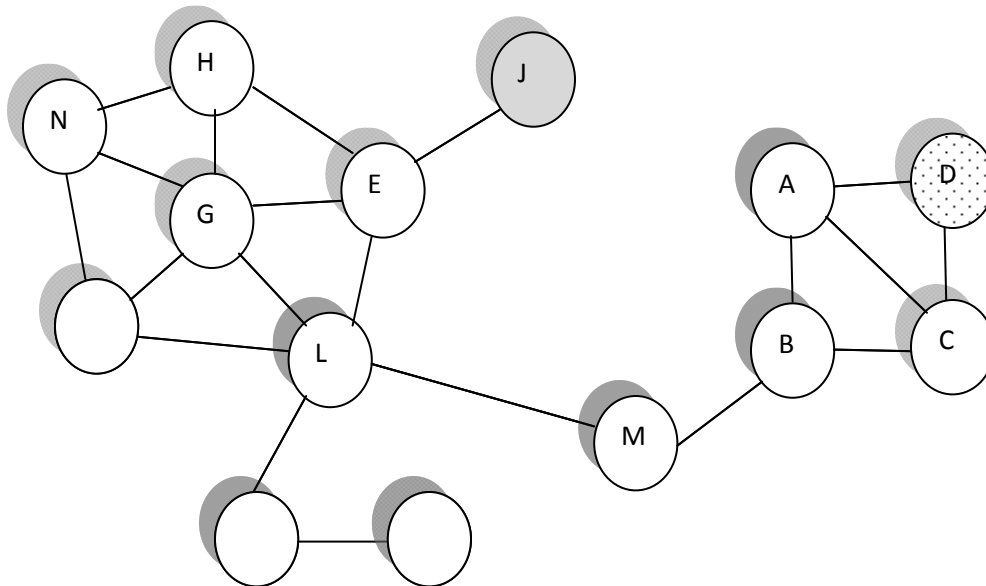


Answer: LONELYHEARTS

Verse

The first part of this is a constraint-based logic puzzle.

Graph



Insights

1. Gargo's five friends form a spoke-and-wheel pattern around him.
2. Since India's and Largo's mutual acquaintance does not have any other friends, the only two people that could be that person are Margo and Fargo.
3. There are twenty friendships, and we can use them all up, ensuring that for the remainder of the puzzle, we have to economize on friendships.
 - a. 10 for the spoke-and-wheel pattern around Gargo
 - b. 5 for the almost-complete *ABCD clique* (among Andia, Bargo, Cargo, and Dargo)
 - c. 1 for the connection from the ABCD clique to the rest of the graph
 - d. 2 for the friendships of India and Largo with their mutual acquaintance
 - e. 2 other friendships: 1 each for Gargo's non-friends: Margo, Jargo, and Fargo. However, either Margo or Fargo will be connected to Largo, so we only add two friendships.

4. All the other reported friendships not mentioned above must be part of the spoke-and-wheel. So we have a *chain LEHNK fence* around G.
5. Fargo and Margo are connected by either Largo or India, because we don't have any more friendships to expend. Combined with #2, that means we have one of the following chains: LMIF, LFIM, IMLF, or IFLM (call these the *FILM strips*). These would all hang off of the chain LEHNK fence by Largo.
6. The ABCD clique does not hang off of Jargo. That would put Bargo at least four degrees from Fargo: Bargo-Jargo-Endia-Largo-Fargo. Thus, the ABCD clique hangs off of the FILM strip somewhere.
7. Because Margo must be between Largo and Dargo, there are only five FILM strips possible – the person that the clique hangs off of is denoted with parentheses.
 - a. LM(I)F – Since Largo is one further away than Fargo from India, Bargo and Dargo must be equidistant from India. But since Bargo must be between Dargo and Largo, this is impossible.
 - b. LMI(F) – Dargo must connect directly to Fargo to be 4 degrees away, but then Bargo is not between it and Largo.
 - c. LFI(M) – Bargo and Dargo must both connect directly to Margo to satisfy their requirements with Fargo and Largo, respectively; but since the ABCD clique only has one exogenous connection, this can't be
 - d. (I)MLF – Bargo must be too far from Fargo.
 - e. IFL(M) – Bargo must connect to Margo directly. Dargo must be two further away than Bargo to be 4 from Largo, meaning that Bargo and Dargo can't be friends. All other constraints are satisfied. Taking this approach gets you the graph depicted above.

Bridge

Two people, India and Jargo, qualify as equally lonely. Their last names are Jarius ($I + 1*1=J$) and Marius ($J+1*3=M$), respectively, so Jargo Marius is the loneliest person, since his last name is closer to the end of the alphabet.

Jargo Marius would like to make friends, and the easiest way to do that is to search for him on Facebook and send him a friend request.

The instructions imply that, in the friend request, you should identify the person furthest away, Dargo, who is six degrees away. If you correctly identified Dargo, Jargo would accept your friend request.

Chorus

Jargo's profile contains twelve public status updates, plus a thirteenth that you would only see if you befriended him, which contained a [link to CNN.com](http://link.to.CNN.com), describing twelve annoying types of Facebookers.

Each status update contains a number. The trick is to figure out how that status update is annoying, and then use the number to index into the term describing that kind of annoyance, canonicalized by stripping out "The" and any punctuation. List the letters in chronological order of the status updates, and you get:

| Ltr | Idx | Term | Status Update |
|-----|-----|--------------------|--|
| l | 1 | Lurker | I noticed in Dargo's relationship status update that he got married 1 month ago. Congratulations, brotha. |
| o | 1 | Obscurist | A bird in hand is worth 1 in the bush, in this case. |
| n | 4 | Crank | Safari 4 is just a warmed-over version of the previous suckage. |
| e | 8 | Town Crier | Pikachu died today! He was killed by 8 angry Charizards. |
| l | 3 | Self-Promoter | I just made 3 grand in my NFL playoffs pool. I am, and always will be, awesome. |
| y | 10 | Let-Me-Tell-You... | I just cooked 10 eggs for myself. Oy... I couldn't eat them all. Maybe I'll eat more later. I'll let you know if I do. |
| h | 2 | Chronic Inviter | Check out the quiz "Which dead rapper are you?" I'm 2Pac! |
| e | 11 | Friend-Padder | I have a perfect scheme to amass friends cooking. I'm aiming to get a least 11 friends initially – then, world domination. By the way, if you're reading this, I hope you friend me. |
| a | 2 | Paparazzo | Check out all the guys these 2 trampy chicks went through throughout the day. |
| r | 10 | Bad Grammarian | definatly C U at the party 10 pm |
| t | 1 | TMIer | I just went number 1 in the potty. |
| s | 1 | Sympathy-Baiter | My truck broke down on Highway 1, and my ice cream cake melted all over my stuffed koala bear Pookums. :-(|

The answer is **LONELYHEARTS**.