**Assignment 2 Name: Gerard Tan**

**I have submitted both a python file and a jupyter notebook version of assignment 2**

**Q1a) How large are the communities (connected components)?**

**I have sorted it in descending order of the community size.**

Number of Communities : 4674

How large are the communities :

+-------------+-------------+

| component|CommunitySize|

+-------------+-------------+

| 0| 4548|

| 403726925828| 3|

| 146028888068| 3|

| 309237645316| 3|

| 678604832775| 3|

| 721554505728| 2|

| 712964571140| 2|

| 103079215111| 2|

| 962072674307| 2|

| 154618822660| 2|

| 146028888071| 2|

| 420906795012| 2|

| 266287972355| 1|

| 661424963596| 1|

|1425929142280| 1|

| 257698037765| 1|

| 618475290624| 1|

|1443109011462| 1|

|1228360646662| 1|

| 197568495620| 1|

| 472446402577| 1|

| 257698037772| 1|

|1623497637895| 1|

| 592705486863| 1|

|1228360646658| 1|

| 798863917060| 1|

|1606317768708| 1|

| 377957122049| 1|

|1228360646659| 1|

| 85899345936| 1|

|1245540515845| 1|

|1640677507075| 1|

| 670014898184| 1|

| 103079215105| 1|

|1022202216452| 1|

| 438086664196| 1|

|1116691496969| 1|

| 77309411331| 1|

|1640677507081| 1|

| 94489280525| 1|

|1073741824000| 1|

| 755914244112| 1|

|1159641169925| 1|

| 292057776131| 1|

| 652835028996| 1|

| 910533066762| 1|

| 292057776133| 1|

| 901943132166| 1|

| 223338299393| 1|

|1099511627778| 1|

| 429496729603| 1|

| 635655159818| 1|

| 816043786253| 1|

|1657857376257| 1|

|1039382085635| 1|

| 687194767364| 1|

| 884763262980| 1|

| 455266533386| 1|

| 936302870535| 1|

| 627065225224| 1|

| 180388626440| 1|

|1537598291974| 1|

|1348619730951| 1|

|1477468749832| 1|

| 395136991238| 1|

|1571958030337| 1|

|1279900254211| 1|

| 223338299403| 1|

|1228360646660| 1|

|1692217114631| 1|

|1391569403906| 1|

|1039382085647| 1|

| 764504178692| 1|

|1554778161152| 1|

|1125281431557| 1|

| 60129542160| 1|

| 506806140931| 1|

|1554778161155| 1|

|1546188226561| 1|

| 146028888067| 1|

| 532575944707| 1|

|1082331758593| 1|

| 8589934594| 1|

| 214748364803| 1|

| 111669149701| 1|

|1614907703307| 1|

|1047972020226| 1|

| 850403524617| 1|

| 274877906948| 1|

| 377957122051| 1|

| 901943132170| 1|

| 489626271744| 1|

| 790273982466| 1|

|1529008357383| 1|

| 953482739712| 1|

|1151051235339| 1|

| 661424963588| 1|

|1537598291978| 1|

| 755914244106| 1|

| 695784701954| 1|

| 249108103178| 1|

|1211180777479| 1|

| 884763262976| 1|

|1649267441668| 1|

|1039382085632| 1|

|1245540515842| 1|

|1477468749827| 1|

| 42949672964| 1|

| 120259084307| 1|

|1314259992580| 1|

|1623497637892| 1|

|1554778161156| 1|

+-------------+-------------+

**Q1b) What are the keywords of the community (frequent words)?**

**In my code I have only selected the top 5 key words from each community. If you wish to view a different number of top words, you can simply change the top\_n variable.**

Key words of each community. Printing the top 5 key words, as well as how many times the word appears

+-------------+--------------------+--------------------+-------------------+--------------------+-------------------+

| community| (keyword\_1, freq\_1)| (keyword\_2, freq\_2)|(keyword\_3, freq\_3)| (keyword\_4, freq\_4)|(keyword\_5, freq\_5)|

+-------------+--------------------+--------------------+-------------------+--------------------+-------------------+

| 0| {u, 11812}| {play, 11285}| {game, 10967}| {like, 9652}| {got, 9595}|

|1073741824000| {mths, 3}| {rated, 3}| {fan, 3}| {box, 2}| {pwm, 2}|

| 223338299403| {server, 2}| {working, 2}| {play, 2}| {community, 2}| {private, 2}|

| 214748364803| {playing, 2}| {closers, 2}| {global, 2}| {online, 2}| {na, 1}|

| 429496729603| {people, 2}| {discord, 2}| {play, 1}| {lai, 1}| {sea, 1}|

|1279900254211| {server, 4}| {x, 3}| {rate, 3}| {nest, 2}| {discord, 2}|

| 420906795012| {g, 7}| {mouse, 4}| {right, 3}| {using, 2}| {gxx, 2}|

| 850403524617| {gb, 3}| {samsung, 2}| {k, 2}| {case, 1}| {wd, 1}|

| 635655159818| {gb, 2}| {battlefield, 1}| {hds, 1}| {turbo, 1}| {ram, 1}|

| 197568495620| {im, 1}| {title, 1}| {black, 1}| {looking, 1}| {ops, 1}|

| 618475290624| {closedddddd, 1}| null| null| null| null|

| 627065225224| {easier, 1}| {g9sbfbf, 1}| {bah, 1}| {add, 1}| {find, 1}|

|1047972020226| {key, 2}| {game, 2}| {anyone, 2}| {playing, 1}| {online, 1}|

|1477468749827| {supply, 2}| {x, 2}| {power, 2}| {9, 2}| {memory, 2}|

| 403726925828| {game, 4}| {new, 4}| {add, 3}| {ign, 2}| {fun, 2}|

|1692217114631| {community, 5}| {gmt, 4}| {server, 4}| {discord, 3}| {wow, 3}|

|1039382085632| {guild, 6}| {inoob, 5}| {server, 5}| {discord, 4}| {jake, 3}|

|1477468749832| {cheapest, 1}| {games, 1}| {sell, 1}| {website, 1}| null|

|1039382085635| {idndidnxisnsk, 1}| {wrong, 1}| {thread, 1}| null| null|

| 395136991238| {gaming, 3}| {999, 2}| {srp, 2}| {acer, 2}| {gb, 2}|

| 180388626440| {box, 2}| {need, 1}| {allows, 1}| {account, 1}| {premium, 1}|

|1245540515842| {chinese, 5}| {game, 4}| {help, 4}| {work, 3}| {upload, 3}|

|1245540515845| {keen, 2}| {play, 2}| {game, 1}|{httpstoresteampo...| {pschiang, 1}|

|1039382085647| {x, 8}| {rate, 7}| {lineage, 6}| {world, 6}| {server, 5}|

| 377957122049| {closed, 1}| null| null| null| null|

| 377957122051| {please, 4}| {kindly, 4}| {facebook, 3}| {notes, 3}| {blog, 3}|

|1022202216452| {asia, 2}| {hi, 2}| {everyone, 2}| {according, 1}| {ranking, 1}|

| 816043786253| {mods, 1}| {server, 1}| {added, 1}| {private, 1}| {number, 1}|

|1657857376257| {ive, 4}| {servers, 4}| {tried, 3}| {na, 2}| {play, 2}|

|1228360646658| {monitor, 2}| {smooth, 1}| {easy, 1}| {eyes, 1}| {ips, 1}|

|1228360646659| {pc, 3}| {acer, 1}| {boot, 1}| {using, 1}| {monitor, 1}|

| 154618822660| {play, 3}| {v, 3}| {old, 1}| {group, 1}| {see, 1}|

|1228360646660| {windows, 2}| {mode, 1}| {ps, 1}| {classic, 1}| {helbreath, 1}|

| 798863917060|{httpsopenspotify...| {friend, 1}| {created, 1}| {podcast, 1}| {childhood, 1}|

|1228360646662| {vip, 2}| {contest, 2}| {across, 1}|{httpswwwfacebook...| {championship, 1}|

|1443109011462| {saw, 1}| {labeled, 1}| {andromeda, 1}| {screenshot, 1}| {specs, 1}|

| 592705486863| {shooter, 2}| {games, 2}| {beta, 2}| {servers, 1}| {key, 1}|

| 790273982466| {monitor, 2}| {gaming, 2}| {reasonable, 1}| {9, 1}| {definitely, 1}|

| 146028888067| {play, 1}| {look, 1}| {draco, 1}| {wish, 1}| {anyone, 1}|

| 146028888068| {side, 4}| {connector, 3}| {use, 2}| {replace, 2}| {hdd, 2}|

|1649267441668| {join, 2}| {bdo, 1}| {active, 1}| {onslaught, 1}| {move, 1}|

| 146028888071| {transaction, 3}| {sgd, 3}| {question, 3}| {currency, 2}| {charged, 2}|

|1640677507075| {finished, 1}| {recommend, 1}| {loved, 1}| {games, 1}| {someone, 1}|

|1211180777479| {trade, 5}| {discord, 4}| {play, 3}| {gamers, 3}| {friends, 3}|

|1425929142280| {abom, 1}| {pm, 1}| {looking, 1}| {account, 1}| null|

|1640677507081| {pm, 2}| {details, 1}| {actual, 1}| {individuals, 1}| {link, 1}|

| 764504178692| {server, 2}|{httpsdiscordggcy...| {discuss, 2}| {looking, 2}| {discord, 2}|

|1623497637892| {squad, 2}| {people, 1}| {singaporean, 1}| {replypm, 1}| {battles, 1}|

|1623497637895| {playing, 2}| {far, 1}| {day, 1}|{httpsstoresteamp...| {ago, 1}|

| 111669149701| {ms, 42}| {9, 12}| {wikiacom, 2}| {maximum, 1}| {problems, 1}|

| 103079215105| {kakao, 4}| {games, 4}| {pearl, 4}| {abyss, 4}| {transfer, 3}|

| 755914244106| {e-lue, 3}| {sg, 2}| {products, 2}| {rig, 1}| {seems, 1}|

|1391569403906| {parts, 1}| {need, 1}| {solely, 1}| {time, 1}| {good, 1}|

| 962072674307| {battle, 4}| {world, 3}| {heroes, 3}| {make, 2}| {use, 2}|

| 532575944707| {clan, 3}| {singapore, 2}| {together, 2}| {division, 2}| {content, 2}|

| 120259084307| {interested, 2}| {playing, 2}| {known, 1}| {sign, 1}| {maybe, 1}|

|1614907703307| {know, 1}| {anyone, 1}| {bless, 1}| {mmorpgs, 1}| {release, 1}|

|1606317768708| {anyone, 3}| {meow, 1}| {lod, 1}| {sc, 1}| {diablo, 1}|

| 103079215111| {va, 4}| {panel, 4}| {games, 3}| {would, 3}| {ips, 3}|

| 755914244112| {laptop, 2}| {razer, 2}| {wrap, 2}| {new, 1}| {starbucks, 1}|

| 953482739712| {singapore, 2}| {get, 2}| {much, 1}| {purchase, 1}| {complete, 1}|

| 309237645316| {gb, 6}| {gtx, 3}| {w, 3}| {atx, 3}| {build, 2}|

|1159641169925| {max, 8}| {option, 7}| {fo, 6}| {socket, 5}| {active, 4}|

| 94489280525| {game, 5}| {community, 4}| {dead, 4}| {servers, 3}| {join, 3}|

| 721554505728| {like, 3}| {using, 2}| {mobo, 2}| {value, 2}| {also, 2}|

| 292057776131| {content, 6}| {sot, 3}| {videos, 2}| {exe, 2}| {pvp, 2}|

| 77309411331| {play, 2}| {mic, 2}| {dont, 1}| {matched, 1}| {becos, 1}|

| 506806140931| {card, 1}| {data, 1}| {steam, 1}| {im, 1}| {free, 1}|

| 292057776133| {play, 2}| {playing, 2}| {gamer, 1}| {username, 1}| {casual, 1}|

| 936302870535| {heroes, 2}| {love, 1}| {anyone, 1}| {play, 1}| {game, 1}|

| 85899345936| {irb, 3}| {im, 2}| {phd, 2}| {wow, 2}| {wee, 2}|

|1571958030337| {wanna, 2}| {start, 2}| {anyone, 2}| {join, 1}| {period, 1}|

|1151051235339| {code, 1}| {installing, 1}| {bonus, 1}| {activate, 1}| {key, 1}|

| 712964571140| {idea, 2}| {totally, 2}| {error, 2}| {bios, 2}| {cause, 1}|

| 489626271744| {gongsters, 1}| {using, 1}| {posted, 1}| {pay, 1}| {want, 1}|

| 274877906948| {game, 3}| {wifi, 3}| {local, 2}| {create, 2}| {play, 2}|

|1348619730951| {know, 1}| {advise, 1}| {handling, 1}| {never, 1}| {etc, 1}|

|1554778161152| {lightsync, 4}| {sampling, 2}| {games, 2}| {enable, 2}| {using, 2}|

| 695784701954| {laptop, 2}| {battery, 2}| {hi, 1}| {whats, 1}| {calibrating, 1}|

|1554778161155| {looking, 3}| {players, 3}| {raid, 3}| {dps, 2}| {also, 2}|

| 266287972355| {individuals, 2}| {game, 2}| {time, 2}| {find, 1}| {behind, 1}|

|1554778161156| {steam, 3}| {download, 3}| {starhub, 2}| {speed, 2}| {problem, 2}|

|1125281431557| {perhaps, 3}| {like, 3}| {looking, 2}| {us, 2}| {youre, 2}|

| 60129542160| {thanks, 1}| {knows, 1}| {focuses, 1}| {singapore, 1}| {telegram, 1}|

|1546188226561| {players, 5}| {group, 3}| {asia, 3}| {well, 3}| {us, 3}|

| 910533066762| {accounts, 3}| {renting, 2}| {seems, 2}| {purchase, 2}| {game, 2}|

| 42949672964| {delid, 4}| {9x, 2}| {getting, 1}| {load, 1}| {9, 1}|

| 687194767364| {online, 1}| {asta, 1}| {anybody, 1}| {playing, 1}| null|

| 257698037765| {planning, 1}| {anyone, 1}| {collectors, 1}| {edition, 1}| {get, 1}|

| 901943132166| {think, 2}| {latest, 1}| {weakwhat, 1}| {okw, 1}| {became, 1}|

|1116691496969| {people, 1}| {us, 1}| {online, 1}| {play, 1}| {closers, 1}|

| 901943132170| {g9, 2}| {9, 2}| {past, 1}| {wireless, 1}| {love, 1}|

| 257698037772| {gaming, 2}| {tv, 1}| {form, 1}| {small, 1}| {k, 1}|

|1537598291974| {nvidia, 2}| {order, 1}| {quality, 1}| {changes, 1}| {aware, 1}|

| 678604832775| {time, 4}| {like, 2}| {need, 2}| {gaming, 2}| {budget, 2}|

| 884763262976| {company, 2}| {atlas, 2}| {migrate, 1}| {server, 1}| {recruitment, 1}|

| 472446402577| {black, 1}|{httpwwwgametopco...| {pool, 1}| {got, 1}| {anyone, 1}|

|1099511627778| {singapore, 4}| {singaporeans, 3}| {us, 3}| {old, 2}| {friends, 2}|

| 249108103178| {fail, 1}| {still, 1}| {many, 1}| {tried, 1}| {game, 1}|

|1537598291978| {newbies, 1}| {anyone, 1}| {game, 1}| {played, 1}| {looking, 1}|

| 884763262980| {first, 2}| {humble, 1}| {walking, 1}| {away, 1}| {purchased, 1}|

|1314259992580| {prefer, 1}| {pso, 1}| {like, 1}| {interesting, 1}| {mechanics, 1}|

|1529008357383| {acer, 3}| {display, 2}| {asus, 2}| {gtx, 2}| {predator, 2}|

| 670014898184| {idea, 1}| {pc, 1}| {download, 1}| {foc, 1}| {tia, 1}|

| 455266533386| {playing, 1}| {anyone, 1}| null| null| null|

| 661424963588| {ssds, 9}| {ssd, 8}| {gb, 7}| {transcend, 6}| {drive, 5}|

| 223338299393| {game, 5}| {wanna, 2}| {ign, 2}| {im, 2}| {together, 2}|

|1082331758593| {playing, 1}| {anyone, 1}| null| null| null|

| 8589934594| {whats, 1}| {play, 1}| {game, 1}| {specs, 1}| {pc, 1}|

| 652835028996| {v, 40}| {c, 40}| {mt, 38}| {thy, 27}| {phong, 27}|

| 438086664196| {board, 2}| {really, 2}| {like, 1}| {colors, 1}| {case, 1}|

| 661424963596| {usa, 1}| {ordered, 1}| {edition, 1}| {fe, 1}| {anyone, 1}|

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**Q2) How cohesive are the communities (Average # of triangles over every user in a community)?**

**Only community “0” has a significant average number of triangle. Other communities only have 1 or 0.**

+-------------+-----------------+

| component| avg(count)|

+-------------+-----------------+

| 0|59009.74208443272|

| 146028888068| 1.0|

| 309237645316| 1.0|

| 678604832775| 1.0|

| 403726925828| 1.0|

| 618475290624| 0.0|

| 266287972355| 0.0|

|1425929142280| 0.0|

| 377957122049| 0.0|

| 661424963596| 0.0|

|1443109011462| 0.0|

| 257698037765| 0.0|

| 197568495620| 0.0|

| 670014898184| 0.0|

| 438086664196| 0.0|

|1228360646658| 0.0|

| 798863917060| 0.0|

| 146028888071| 0.0|

| 592705486863| 0.0|

|1228360646659| 0.0|

|1228360646662| 0.0|

| 257698037772| 0.0|

|1073741824000| 0.0|

| 910533066762| 0.0|

| 884763262980| 0.0|

|1116691496969| 0.0|

| 77309411331| 0.0|

| 103079215105| 0.0|

|1022202216452| 0.0|

|1159641169925| 0.0|

|1537598291974| 0.0|

| 472446402577| 0.0|

|1245540515845| 0.0|

|1623497637895| 0.0|

|1606317768708| 0.0|

| 429496729603| 0.0|

|1640677507075| 0.0|

| 652835028996| 0.0|

| 420906795012| 0.0|

|1039382085635| 0.0|

|1546188226561| 0.0|

| 292057776131| 0.0|

| 292057776133| 0.0|

| 687194767364| 0.0|

| 953482739712| 0.0|

|1657857376257| 0.0|

| 85899345936| 0.0|

| 223338299393| 0.0|

|1099511627778| 0.0|

| 154618822660| 0.0|

| 455266533386| 0.0|

| 816043786253| 0.0|

| 395136991238| 0.0|

|1039382085647| 0.0|

|1348619730951| 0.0|

| 180388626440| 0.0|

| 42949672964| 0.0|

| 627065225224| 0.0|

|1477468749832| 0.0|

|1228360646660| 0.0|

|1692217114631| 0.0|

|1279900254211| 0.0|

| 721554505728| 0.0|

| 94489280525| 0.0|

|1391569403906| 0.0|

| 712964571140| 0.0|

| 103079215111| 0.0|

| 755914244112| 0.0|

| 764504178692| 0.0|

|1554778161152| 0.0|

| 506806140931| 0.0|

| 60129542160| 0.0|

|1640677507081| 0.0|

|1125281431557| 0.0|

|1554778161155| 0.0|

| 8589934594| 0.0|

| 635655159818| 0.0|

| 111669149701| 0.0|

|1614907703307| 0.0|

| 214748364803| 0.0|

|1082331758593| 0.0|

| 146028888067| 0.0|

| 790273982466| 0.0|

|1529008357383| 0.0|

| 850403524617| 0.0|

| 274877906948| 0.0|

|1047972020226| 0.0|

| 901943132170| 0.0|

| 377957122051| 0.0|

| 901943132166| 0.0|

| 532575944707| 0.0|

| 489626271744| 0.0|

| 661424963588| 0.0|

| 695784701954| 0.0|

|1151051235339| 0.0|

| 755914244106| 0.0|

| 936302870535| 0.0|

|1537598291978| 0.0|

| 249108103178| 0.0|

| 962072674307| 0.0|

|1649267441668| 0.0|

|1245540515842| 0.0|

|1477468749827| 0.0|

|1623497637892| 0.0|

|1211180777479| 0.0|

| 884763262976| 0.0|

|1039382085632| 0.0|

| 223338299403| 0.0|

| 120259084307| 0.0|

|1571958030337| 0.0|

|1554778161156| 0.0|

|1314259992580| 0.0|

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**Q3) Is there any strange community? (Retrieve frequency of posts within each community)**

**For this question, I have decided to find if there are any strange communities where the frequency between posts is far apart, or very close to each other given the first and last post date and its number of posts. As the spread of the community is very skewed whereby one community has more than 4000+ authors, and the other communities have only 1 to 3 authors as seen in the dataframe shown in Q1a, finding a strange community is difficult. As such, my idea was to find communities which have weird post frequencies .**

**I have noticed that in the first community in the dataframe below, there are only two posts made by 1 author but the date difference between those posts is like 1229 days, which is like 3 years apart which is quite strange. This would mean that this author started this topic and no one else posted there. Community “0” on the other hand has very frequent posts made, at 1 post 0.3 times a day. This is due to its large community size.**

**If given the circumstance where community sizes and more normalized, we might be able to see more strange communities such as communities where the frequency in posts is like big and the first and last post made is like far apart as well. This could mean that the community is more about events, like yearly event where they will only come out and create posts during certain events in the year. If there are communities where frequency in posts is small, and first and last post made is near, it could be a very active community where they talk about a lot of things.**

+-------------+------------------+---------------+-----------------+-------------------+-------------------+----------+

| component|avg\_post\_freq\_days|number\_of\_posts|number\_of\_authors| first\_post\_date| last\_post\_date|days\_apart|

+-------------+------------------+---------------+-----------------+-------------------+-------------------+----------+

|1039382085632| 1229.0| 2| 1|2018-02-27 17:59:29|2021-07-10 07:55:06| 1229|

| 712964571140| 108.0| 2| 2|2020-05-07 19:00:17|2020-08-23 12:27:47| 108|

| 962072674307| 29.0| 2| 2|2015-07-19 20:03:56|2015-08-17 14:47:44| 29|

| 154618822660| 22.5| 3| 2|2020-09-24 15:18:15|2020-11-08 10:04:53| 45|

| 94489280525| 12.0| 2| 1|2020-08-06 02:19:51|2020-08-18 17:11:06| 12|

| 146028888068| 9.0| 5| 3|2019-06-19 10:43:53|2019-07-25 20:44:20| 36|

| 678604832775| 9.0| 3| 3|2017-08-16 08:44:54|2017-09-03 14:13:58| 18|

| 403726925828| 7.5| 3| 3|2018-03-31 12:47:07|2018-04-15 11:06:12| 15|

| 309237645316| 4.5| 3| 3|2017-12-26 21:19:47|2018-01-04 08:49:20| 9|

| 489626271744| 3.0| 2| 1|2021-03-01 13:46:41|2021-03-04 14:06:44| 3|

| 146028888071| 2.0| 3| 2|2018-04-03 17:15:56|2018-04-07 19:02:22| 4|

| 420906795012| 1.0| 2| 2|2019-06-26 10:28:19|2019-06-27 17:05:01| 1|

| 214748364803| 1.0| 2| 1|2018-11-04 21:30:53|2018-11-05 07:59:56| 1|

|1022202216452| 1.0| 2| 1|2017-11-23 14:51:26|2017-11-24 11:12:13| 1|

| 0| 0.03457| 101169| 4548|2012-02-04 18:24:05|2021-09-01 12:13:11| 3497|

| 661424963596| 0.0| 1| 1|2020-09-20 08:02:35|2020-09-20 08:02:35| 0|

| 377957122049| 0.0| 1| 1|2019-10-05 08:48:58|2019-10-05 08:48:58| 0|

| 257698037765| 0.0| 1| 1|2016-09-18 16:16:39|2016-09-18 16:16:39| 0|

| 266287972355| 0.0| 1| 1|2019-04-02 16:52:16|2019-04-02 16:52:16| 0|

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| 618475290624| 0.0| 1| 1|2021-04-12 15:33:06|2021-04-12 15:33:06| 0|

|1425929142280| 0.0| 1| 1|2019-10-07 21:40:39|2019-10-07 21:40:39| 0|

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|1623497637895| 0.0| 1| 1|2019-10-15 15:31:27|2019-10-15 15:31:27| 0|

| 798863917060| 0.0| 1| 1|2020-03-08 17:05:30|2020-03-08 17:05:30| 0|

|1159641169925| 0.0| 1| 1|2018-06-17 01:01:08|2018-06-17 01:01:08| 0|

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| 472446402577| 0.0| 1| 1|2016-05-18 15:46:43|2016-05-18 15:46:43| 0|

|1245540515845| 0.0| 1| 1|2016-08-22 10:40:44|2016-08-22 10:40:44| 0|

| 592705486863| 0.0| 1| 1|2020-12-24 12:54:08|2020-12-24 12:54:08| 0|

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| 257698037772| 0.0| 1| 1|2019-03-20 17:31:45|2019-03-20 17:31:45| 0|

| 670014898184| 0.0| 1| 1|2016-09-12 13:35:29|2016-09-12 13:35:29| 0|

| 816043786253| 0.0| 1| 1|2020-12-27 20:00:02|2020-12-27 20:00:02| 0|

| 103079215105| 0.0| 1| 1|2021-01-29 23:26:16|2021-01-29 23:26:16| 0|

| 627065225224| 0.0| 1| 1|2017-05-23 12:15:05|2017-05-23 12:15:05| 0|

| 77309411331| 0.0| 1| 1|2019-02-14 09:54:58|2019-02-14 09:54:58| 0|

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| 652835028996| 0.0| 1| 1|2019-05-24 09:39:09|2019-05-24 09:39:09| 0|

| 292057776131| 0.0| 1| 1|2020-08-08 16:32:08|2020-08-08 16:32:08| 0|

| 85899345936| 0.0| 1| 1|2020-12-30 11:48:22|2020-12-30 11:48:22| 0|

| 223338299393| 0.0| 1| 1|2019-09-24 00:54:31|2019-09-24 00:54:31| 0|

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|1657857376257| 0.0| 1| 1|2020-05-31 11:24:13|2020-05-31 11:24:13| 0|

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| 687194767364| 0.0| 1| 1|2017-07-04 10:29:27|2017-07-04 10:29:27| 0|

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| 103079215111| 0.0| 2| 2|2019-03-26 17:26:32|2019-03-26 17:42:25| 0|

| 721554505728| 0.0| 2| 2|2021-04-21 11:47:00|2021-04-21 11:55:20| 0|

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| 764504178692| 0.0| 2| 1|2020-08-14 18:02:32|2020-08-14 20:42:30| 0|

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| 60129542160| 0.0| 1| 1|2019-06-07 12:34:32|2019-06-07 12:34:32| 0|

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