- 1. 需求数据量: 5万条推文+每个推文作者的 following/friend 数据 若无法获取 friend 数据,则使用 follower 数据替代
- 2. 数据要求:
 - 1. 每个用户最多保留 20 条推文
 - 2. 推文必须包含 5 中的关键字(至少一个)
 - 3. 推文的时间在 2020.11.3-2021.1.6 之间, 优先保留靠近 2021.1.6 的推文
 - 4. 若无满足 2.2 要求的推文数据,则保存距离 2021.1.6 最近的 3 条推文
 - 5. following 数据来自于数据收集过程中
 - 6. 每个用户的 friends 数据至多不超过 100

Input: initial seed user u_0 in a user cluster

3. 数据搜索方式。以 seed user 为起始节点,以 friend/following 作为边,进行广度优先搜索(BFS)。每个用户节点最多选取 200 个关系(friend+folloing)作为边。

Output: user information set *F* $u_0.layer \leftarrow 0$; // designate seed user as layer 0 $S \leftarrow \{u_0\}$; // set of users to expand $u_0.exp$ and $ed \leftarrow F$ alse; $F \leftarrow \emptyset$: while $S \neq \emptyset$ do $u \leftarrow S.pop()$; // expand with user u $T(u) \leftarrow qet_tweet(u);$ $P(u) \leftarrow get_property(u);$ if $u.layer \ge 3$ or u.expanded == True then $F \leftarrow F \cup u(T, P, N = \emptyset);$ **continue**; // three layers max $u.expanded \leftarrow True;$ $N^f(u) \leftarrow get_friend(u);$ $N^t(u) \leftarrow get_follower(u);$ $N(u) \leftarrow \{N^f(u), N^t(u)\};$ $F \leftarrow F \cup u(T, P, N);$ $S \leftarrow S \cup N^f(u) \cup N^t(u);$ for $y \in N^f(u) \cup N^t(u)$ do

Return *F*; // obtained one cluster of user information

4. Seed User {显示姓名,账户名,个人主页 url}

 $y.expanded \leftarrow False;$ $y.layer \leftarrow u.layer + 1;$

Tucker Carlson,@TuckerCarlson,https://twitter.com/TuckerCarlson Michael Moore,@MMFlint,https://twitter.com/MMFlint Nina Turner,@ninaturner,https://twitter.com/ninaturner Sarah Silverman,@SarahKSilverman,https://twitter.com/SarahKSilverman

Candace Owens,@RealCandaceO,https://twitter.com/RealCandaceO

Barack Obama,@BarackObama,https://twitter.com/BarackObama

Kayleigh McEnany,@kayleighmcenany,https://twitter.com/kayleighmcenany

Kamala Harris,@KamalaHarris,https://twitter.com/KamalaHarris

Lindsey Graham ,@LindseyGrahamSC,https://twitter.com/LindseyGrahamSC

Ilhan Omar,@IlhanMN,https://twitter.com/IlhanMN

Charlie Kirk,@charliekirk11,https://twitter.com/charliekirk11

Sarah Huckabee Sanders,@SarahHuckabee,https://twitter.com/SarahHuckabee

Official Rush Limbaugh,@OfficialRushUSA,https://twitter.com/OfficialRushUSA

Bernie Sanders,@BernieSanders,https://twitter.com/BernieSanders

Elizabeth Warren,@SenWarren,https://twitter.com/SenWarren

LeBron James,@KingJames,https://twitter.com/KingJames

Michelle Obama,@MichelleObama,https://twitter.com/MichelleObama

Danny DeVito,@DannyDeVito,https://twitter.com/DannyDeVito

Lady Gaga,@ladygaga,https://twitter.com/ladygaga

Sean Hannity,@seanhannity,https://twitter.com/seanhannity

Mark Ruffalo,@MarkRuffalo,https://twitter.com/MarkRuffalo

Alexandria Ocasio-Cortez,@AOC,https://twitter.com/AOC

John Legend,@johnlegend,https://twitter.com/johnlegend

5. 关键词列表:

Trump2020LandSlide

TrumpCrimeFamily

DonaldTrump

Republican

BidenForPresident

SleepyJoe

JoeBiden

Democrats

BernieWon

NeverBernie

BernieSanders

Sanders

Election2020

SocialistSanders

BernieLosesAgain

SandersForPresident

MAGA

KeepAmericaGreat

AmericaFirst

TrumpTrain

NeverTrump

DumpTrump

TrumpResign

NotMyPresident

BidenHarris2020

VoteBlue

JoeAndKamala

BidenUnity

NeverBiden

BidenCrimeFamily

NotMyPresidentBiden

BidenLied

FeelTheBern

Bernie2020

NotMeUs