Simulation

While time is less than max time

Generate random number r_1

analyzer_main.cpp

analyzer_follow.cpp

analyzer_retweet.cpp

analyzer_rates.cpp

If
$$r_1 - R_{add} < 0$$

Add a new user

else $r_1 = r_1 - R_{add}$

If $r_1 - R_{follow} < 0$

A user follows

else $r_1 = r_1 - R_{follow}$

If r_1 - R_{tweet} < 0

A user tweets

else $r_1 = r_1 - R_{tweet}$

If r_1 - $R_{retweet} < 0$

A user retweets

else $r_1 = r_1 - R_{retweet}$

Generate another random number r_2

Update time: time += $-\log(r_2)$ / rate total

Update rates