

2) Algorithm

map (key, value) {

 reducervalue = (<friend₁>, friend₂> ... <friend_n>)

 foreach friend in (<friend₁> <friend₂> ... <friend_n>)

 reducerkey = buildSortedKey(person, friend);

 emit (reducerkey, reducervalue)

reducer (key, value) {

 outputkey = key;

 outputvalue = intersection (list₁, list₂, ... list_n)

 emit (outputkey, outputvalue);

}