#person -> list of their friends

map(String key1, String value):

for each pair of friends in value:

EmitIntermediate(pair, 1);

#pair of people -> list of their mutual friends

map(String key2, Iterator values):

EmitIntermediate (key2, values);

#set of 3 people -> list of their mutual friends

reduce(String key3, Iterator values):

Emit(key3, values);