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//Second part description

I used the existing reduce method that takes input type as Text, Iterable <text> as values and a context object.

Inside the reduce method:

It maintains a HashMap named map and it initializes a string Builder sb to build the list of mutual friends and it counts the mutual friends by iterating through the list of friends which are associated with a pair of friends.

If a friend is already in the map it is considered as a mutual friend and their name is appended to sb and if not, they are not added to the map.

After processing all the values, it sets the result to contain the list of mutual friends.

It stores the list in the mutualFriendsMap and stores the mutual friends count in the mutualFriendsCount map.

Next is the cleanup method that is called after processing all data.

It finds the pair of friends with the highest mutual friends count by iterating through the mutualFriendsCount map.

It outputs the highest mutual friends count with the pair of friends and count itself.

Additionally, it outputs mutual friends for pairs whose names start with 1 or 5 by checking keys of mutual Friends.

I used jar file named mfhigh.jar to excute the code .