Problem set 2B:

CD

CE

DE

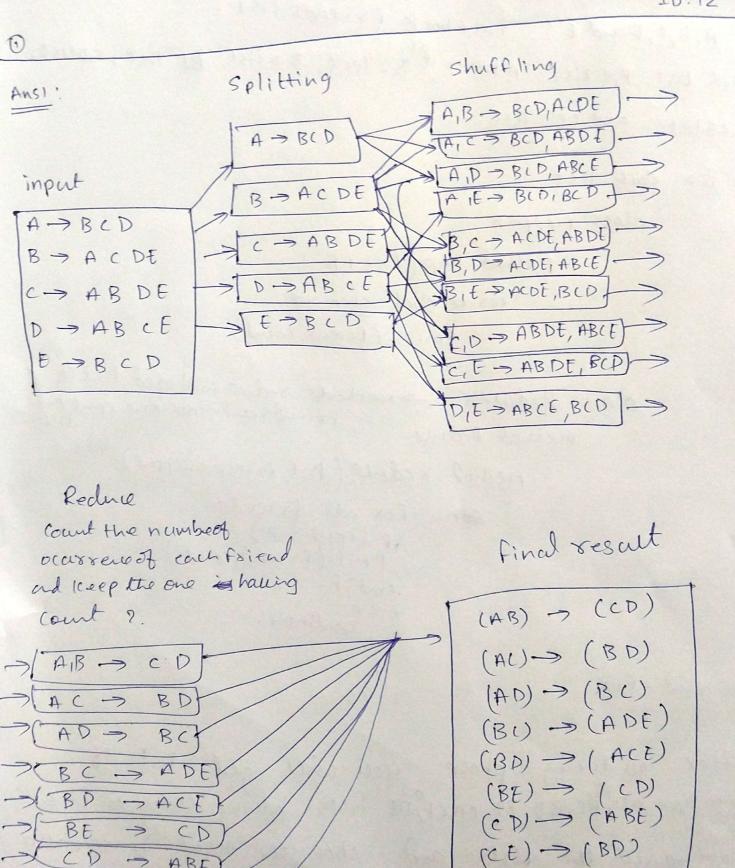
-> ABE

-> BD7

->

CS5560 Knowledge Discovery and Management

SAITEJA MAKANI ID:12



(DE) -> (B()

Assumption! input to seducing algorithm is a x list of

A,B,C,Dand E's facebook friends list.

A,B,C,Dand E's facebook friends list.

A,B,C,Dand E's facebook friends list.

B,Clist, Bplist, Btlist, collist,

CElist, and DE's list.

For each list

class mapper

rethod Hap (list AB)

for all each clement

EMIT. (Friend, lowl)

class Reduces -> methodo reduce will ged list of.
rethod Reduce
rethod Reduce

method reduce (tist friends-court)

For all friends

if (cont == 2)

Emit (friend, count)

end if.

else

continue.

end-Fox

- after rudering phase you will get lists of

AB, AC, AD, BC, BD, BE, CD, CF, DE lists having common friends

Sur up all the lists and show the result in readable

Format

3. Spark Scala implementation:

pseudo code for implementation:

val textfile = spark. texfile ("bots D: \farebook-1 ist. +if,

val splits = textfile. Offtmap (time stime. shuffile());

val common : textite. flat mp splits. flatrap ("ne => line.split (""))

· Map (wood > (wood, 1))

· & edne By Key (count 52)

Commonfriends, save file ("D:\ Common friends");

Reduce Bykey 'sedules the intermediate results by "court = 2"

Shuffile function: executer AB, AC, AD, AE like wise combinations