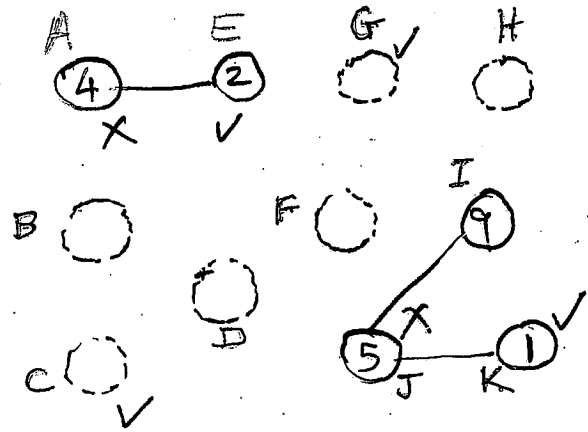


Iteration 1



Iteration 2

MIS = {C, E, G, I, K}

repeat

if Neighbors = \emptyset then
 selected_i = true; exit

random_i ← random #

send RANDOM(random_i) to each neighbor

await RANDOM(random_j) from each $j \in$ Neighbors

if random_i < random_j ($\forall j$ in Neighbors) then

send SELECTED(i, true) to each $j \in$ Neighbors

selected_i ← true; exit

else

send SELECTED(i, false) to each $j \in$ Neighbors

await SELECTED(j, *) from each $j \in$ Neighbors

if SELECTED(j, true) arrived from some j then

for each $j \in$ Neighbors from which SELECTED(*, false) arrived do

send ELIMINATED(i, true) to j

eliminated_i ← true; exit

else

send ELIMINATED(i, false) to each $j \in$ Neighbors

await ELIMINATED(j, *) from each $j \in$ Neighbors

for all $j \in$ Neighbors do

if ELIMINATED(j, true) arrived then

Neighbors ← Neighbors \ {j}

MIS = {C, E, G, I, K} ← maximum

MIS = {A, C, G, I, K}