

i) Begin Display Train
read number of Trains
Train = 0
End.

Begin Display Train
read number of trains
Train = 1
WHILE Train \leq Number of Trains
 Read Train ID (Train ID X)
 Read Train Location (Train ID, Location X, Location Y)
 Display Train ID / Train ID, Location X, Location Y
 Train = Train + 1
ENDWHILE
END

Begin Read Train Location
 X = Location X
 Y = Location Y
Broadcast message (Train ID)
Received message, X, Y
END

Begin Display Train

~~Train = 1~~ read number of trains

Train = 1

While Train <= number of trains

Read Train 1 ID (Train ID)

Read Train 2 ID (Train ID)

Read location (Train ID 1, Location X, Location Y)

Read location (Train ID 2, location X, location Y)

Display Train ID (Train 1 ID, Location X, Location Y)

Display Train 2 ID (Train 2 ID, location X, location Y)

Train = Train + 1

ENDWHILE

END

Begin read location (Train 1 ID, Location X, location Y)

X = location X

Y = location Y

Broadcast message (Train 1 ID)

Broadcast message (Train 2 ID)

messages received (X, Y)

END

ii)

The reason why algorithm does not work is because when ~~there~~ there are two trains then the algorithm gets confused and we could receive wrong message.

iii) The way in how I would modify the algorithm to ensure that the software components operates as intended is make the easier software in which the algorithm could not get confused.

(B) i) what has been done in this case is they have used somebody's else's code to do their program. To do this it is against the law there is something called copyright you

are not allowed to copy anyones ideas. Now the person who come up with the code could sue them.

ii. The way in which management could ensure that the software team carry out their own responsibilities as a software developers is by telling them on what they are not allowed to do. But if the software developers ignore that than they are taking their own risk, than ~~the~~ ~~an~~ this is not anyone fault but the persons who is doing it.