

21. i.) Number of Trains Result

Testing While loop: 0 Neverending Loop.

1 Doesn't enter While Loop.

2 However Only Check 1st Train.

ii.) The algorithm does not work because as shown above the

While Statement is incorrect for the desired purpose. The

actual result should read:

Number of Trains Result

0 Don't Enter Loop.

1 Stops after 1 Loop

2 Stops after 2 Loops.

iii.) BEGIN DisplayTrain
 read Number of Trains
 Train = 1

 While Train > 0 AND Train <= Number of Trains.

    ~~~~~  
    ===== Stays Same.  
    =====

    END While

END

b.) i.) This ~~is~~ issue is a very unethical as the member used plagiarism in stating that the work was his own. This act also breaks the Copyright Act of 1968 which states that to use another person's <sup>work</sup> ~~code~~ you require their explicit permission to do so, and credit should be given to the author. This is illegal and is very unethical and could end up costing the company a lot of money.

ii.) Management could ensure their software team carries out their responsibilities by performing checks on their work and actively involving the workers in peer checking. ~~and A common way to stop~~ By getting their peers to check their work, they would notice either the absence of comments in a piece of code, or other intentions than those intended. Malicious activities would quickly become apparent and the peer would not want to face the penalty of withholding information and not telling anyone.

Regular progress checks by management would also allow them to keep on top of their employees work and react to abnormalities.