



### DESK CHECK

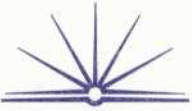
#### VARIABLES

a) i)

	NUMBER OF TRAINS	TRAIN
<u>TEST DATA</u>	0	1
NUMBER OF TRAINS = 0	0	2
	0	3
	...	...
NUMBER OF TRAINS = 1	1	1
NUMBER OF TRAINS = 2	2	1
	2	2

ii) The deskcheck has shown that the program will continue looping indefinitely if the test data is 0, will not loop with test data of 1 and loops only once with test data of 2.

This is because line (4) of the algorithm has the relational operator '<>' or 'not equal to'. ~~If it read~~



iii) For the program to work as intended the relational operator in line ④ must be changed to ' $\leq$ ' so the line will read 'WRITE Train  $\leq$  NumberOfTrains.'

Also in the Read location module lines ⑫ and ⑬ must be swapped with ⑭ and ⑮ and made to read 'LocationX = X'  
'LocationY = Y'

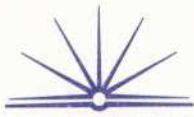
as standards dictate that the principle operand be to the left of the operator.

Line ⑬ must be modified to read 'display TrainID at PositionX, PositionY.'



21(b)(i) The act by the programmer who claimed ownership of the Run-time component from the website without documenting this is guilty of plagiarism. This is unethical as the site being closed means that ~~the~~ the ability and probability of ~~the~~ the member to be caught is reduced. This is also unethical as the member receives recognition without doing any work like the other members, who may receive benefits, promotion, etc in favour of others even though they are not worthy.

21(b)(ii) Management can produce a code of conduct firstly which sets the behaviour and performance standards. Monitoring controls should increase i.e. allowing work to occur only in the office environment where logs such as Internet explorer history are reviewed. The Management also should make employees more accountable for their actions and increase



penalties for irresponsible conduct and/or activities. Management should ensure that appropriate testing of software before publishing occurs also. The management should also set good examples of themselves such as having appropriate licences of software they purchase, not using pirated software and take pride in their work. Regular Anti-Virus Scanning is also necessary.