

o) I ~~think~~ It is a logic error in line 12.

If ~~the~~ the program reads an unrecognisable message, the system is turned off.

II (12) ELSE

(13) ~~READ~~ ^{GO TO} NEXT Message Header

(14) ENDIF

III The data types of each of these messages are: Event → String

Ticket → Read Number

System Date / System Time → Integer

IV	System :	PRINT TICKET	Event Number	Lost Event Number	Event tickets available	Number ticket sold
	ON		2	1	1	0
	ON	1		2	1	
	ON	2				
	ON	3				
	ON	4				
	ON	5				
	ON	6				
	ON	7				
	ON	8				



A further error in the program is in line 36 because ~~for~~ it says "For ~~PrintTicket = 1~~ to Number of Tickets Sold" but if no tickets have been sold, this process has no terminating value. Another error is in line ~~29~~³⁰ where it says "~~EventTicketsAvailable > EventTicketsAvailable - NumberTicketSold~~" the variable ~~is~~ ~~the~~ ~~equation~~ already has a value and since it is in "If EventTicketsAvailable < 0 > THEN" because ~~if~~ there will never be less than 0 tickets available.

b) BEGIN

Reports is an array of Ticket Array records
indexed from 1 to 999

Ticket Array is a record containing

Event Number, Integer

Event Name, string

Tickets sold, Integer

GND

FOR ~~ticket~~^{row} = 1 TO 999

FOR ~~ticket~~^{column} = 1 TO ~~3~~³

set TicketArray (~~row, column~~) to user input

GNDIFOR

GNDIFOR

count = 1

set ^{TicketArray} (~~row, 1~~) to min

while count < 1000

If TicketArray (Count, 1) > TicketArray (Count + 1, 1)

~~SWAP~~ Swap TicketArray (Count, 1) and TicketArray (Count + 1, 1)

GNDIF

Count = Count + 1

GNDWHILE

FOR row = 1 TO 999

FOR column = 2 TO 3

Print TicketArray (row, column)

ENDFOR

ENDFOR

GND



c) Online documentation is documentation that is on the internet. It can be constantly upgraded and changed, but to access it you need the internet. Paper documentation is also known as hardcopy. It is the traditional way of providing documentation to the user. The user can have it sent with them wherever they choose and, it is useful for quick referencing. It however cannot be updated, thus the possibility arises that it can become outdated very easily. On-line documentation would be very suitable for the ticket agency. Everyone has access to the internet and the documentation could be constantly upgraded, updated to deal with new errors; problems that the users come up with.