9608 Specimen paper 4	

1c	procedure BinarySearch(Low, High : integer);
	  var ItemFound, SearchFailed : Boolean;
	  var Middle : integer;
	begin
	  ItemFound := False;
	  SearchFailed := False;
	  Middle := (Low + High) DIV 2;
	  if SearchData[Middle] = SearchItem
	  then
	  Found := True
	  else
	  if Low >= High
	  then
	  SearchFailed := True
	  else
	  if SearchData[Middle] < SearchItem
	  then
	  BinarySearch(Middle + 1, High)
	  else
	  BinarySearch(Low, Middle - 1);
	
	end;

2c	function Reject: Boolean;
	begin
	 if ((G1Tests = True) and (G2Tests = False)
	  and (G3Tests = False) or (G1Tests = False))
	  then
	  Reject := True
	  else
	  Reject := False;
	end;

5b	interface
	type PassengerVehicle = class
	private
	  regNo : String;
	  noOfSeats : Integer;
	public
	  procedure showRegNo;
	  procedure showNoOfSeats;
	end;
	
	implementation
	procedure PassengerVehicle.showRegNo;
	begin

	WriteLn(regNo);
	end;
	
	procedure PassengerVehicle.showNoOfSeats;
	begin
	WriteLn(noOfSeats);
	end;
	
	end.

5c	interface
	type Bus = class(PassengerVehicle)
	private
	maxStanding : integer;
	public
	constructor Create(r : string; n, m : integer);
	procedure showMaxStanding;
	end;
	
	implementation
	constructor Bus.Create(r : string; n, m : integer);
	begin
	inherited create(r,n);
	maxStanding := m;
	end;
	
	procedure Bus.showMaxStanding;
	begin
	WriteLn(maxStanding);
	end;
	end.

5di	var pv1 : bus; pv1 := Bus.Create('NBR 123', 51, 10);
5dii	pv1.showRegNo; pv1.showNoOfSeats; pv1.showMaxStanding;