

Task	Criteria	Marks
	PART A (40 marks)	40
	Main, welcome message and array declaration and initialisation 0: Not implemented or student used dynamic arrays (ArrayList, dictionaries..) 1-2: The declaration of the arrays is not entirely correct and/or the welcome message is missing 3-4: Excellent declaration of arrays and main shows welcome message	4
	Menu 0: Not implemented 1-2: Menu does not repeat and does not exit when 0 is selected 3-4: Menu does not repeat <u>or</u> does not exit when 0 is selected 5-7: Menu works correctly but the use of control structures is poor 8: Menu correctly implemented and the applicaton ends when option 0 is selected	8
	Method 'buy_seat' 0: Not implemented 1-2: It does record the seat as sold, but no validation 3-4: Either no input validation or does not check if the seat is available 5-6: Good input and seat validation and seat recorded correctly	6
	Method 'cancel_seat' 0: Not implemented 1-2: It does record the seat as available, but no validation 3-4: Either no input validation or does not check if the seat is already available 5-6: Good input and seat validation and seat recorded correctly	6
	Method 'find_first_available' 0: Not implemented 1-2: There is an attempt but does not work correctly or has major issues 3-4: There is an attempt, but has some minor issues or does not find the correct seat. 5-6: Works correctly but is not efficient or wrong choice of control structures / loops 7-8: Works correctly and is an efficient implementation with the correct structures and loop	8
	Method 'show_seating_plan' 0: Not implemented 1-4: There is an attempt but the output does not show the correct seats available or sold 5-7: Works correctly but the format is incorrect. 8: Works correctly and the format is correct.	8
	PART B (38 marks)	38
	Class Person 0: Not implemented 1-3: Attributes are not defined correctly or getters or setters missing or constructor missing 4: Attributes defined correctly, all getters and setters and constructor	4
	Class Ticket 0: Not implemented 1-3: Attributes are not defined correctly or getters or setters missing or constructor missing 4: Attributes defined correctly, all getters and setters and constructor	4
	Buy/Cancel seats update 0: Not implemented 1-2: Student used dynamic arrays (ArrayList, dictionaries..) or class Ticket or class Person are not used 3-4: Either buy_seat or cancel_seat has not been updated or is not working correctly 5-7: There is an attempt in implementing both, but either one of them or both have minor issues. 8-9: Objects are created correctly, but the array management is not efficient/correct 10: Implementation works and uses standard arrays efficiently	10
	Method 'print_tickets_info' 0: Not implemented 1-3: Either the loop is not correct or does not use methods in class Ticket or class Person correctly 4-5: Works, but the total price is not calculated 6: Use of the correct loop, correct use of class Ticket and class Person, total price is correct	6
	Method 'search_ticket' 0: Not implemented 1-2: There is an attempt, but does not work correctly or uses dynamic arrays 3-4: Works, but the search strategy is not efficient 6: Works and efficient use of a search strategy	6
	Method save 0: Not implemented 1-3: There is an attempt but is not working correctly 4-5: There is an attempt and saves the file, but format is not .txt 6-7: File saved in .txt correctly, but the call to the Ticket method is not correct or has minor issues 8: Correct implementation and saves the file with the correct information	8
	TESTING, SELF-EVALUATION AND STYLE	12
	Tests part A 0: No testing 1-3: Some testing done but most cases are missing 4: Good testing with most/all cases tested	4
	Tests part B 0: No testing 1-3: Some testing done but most cases are missing 4: Good testing with most/all cases tested	4
	Style: 0: Poor use of comments, poor names, poor formatting, poor use of methods 1: Good use of comments, good use of names, good formatting 2: Good use of comments, name and formatting, and excellent use of self-defined methods	2
	Self-evaluation form completed	2
	DEMO	10
	Demo attended	yes/no
	0: Student did not attend the demo - mark set to 0 1-3: Student provided poor explanations / failed to respond most of the questions 4-7: Student provided good explanations but failed to respond some questions or part B not submitted 8-10: Student provided excellent explanations on part A and B	10
DEMO	TOTAL	100