Task	Expected response		Additional guidance	Marks available	
2	**Software design and development**				
2a	Award **1 mark each** for any two of the following: ♦ there are 973 beaches in file ♦ the file data (names and rating) is assumed to be accurate ♦ no input validation required for file data ♦ rating entered by user will only be an integer from 1 to 5 ♦ the user can only enter one beach to display (as the program only runs once)			2	**Analysis (2)**
2b (i)	Input from file	Procedure with use of parameter passing (beach data record structure) created to read file data		1	**Implementation (12)**
		Read data from file		1	
		Store beach names and ratings in a record structure		1	
	Calculate average rating	Function with use of parameter passing (beach data record structure) created to return average rating		1	
		Count occurrences algorithm. Award **2 marks** for: ♦ fixed loop for each record ♦ selection (not 5) ♦ running total of ratings ♦ incrementing counter	Award 1 mark for three bullets Award 0 marks for fewer than three bullets	2	
		Average rating calculated correctly		1	

Task	Expected response		Additional guidance	Marks available
2	**Software design and development**			
	Display selected	Procedure with use of parameter passing (beach data record structure) created to display selected beaches		1
		Linear search algorithm used to display user-selected records Award **2 marks** for: ♦ user input validated as an integer between 1 and 5 ♦ selection – record data matching user input ♦ display output – beach name	Award 1 mark for two bullets Award 0 marks for fewer than two bullets	2
	Program code is maintainable Award **1 mark** for any two bullets: ♦ internal commentary ♦ white space ♦ meaningful identifiers			1
	Matches supplied refinements			1

Task	Expected response		Additional guidance	Marks available	
2	**Software design and development**				
2b (ii)	Single word output	Position of space identified		1	**Implementation (3)**
		Sub-string used to display first word in string		1	
		Solution accounts for beach names with originally one word		1	
2c	Award **1 mark each** for: ♦ description of test used to check reading of data from file ♦ description of tests used for user input (1 to 5)			2	**Testing (3)**
2d	Breakpoint drawn on code to pause code when condition 'rating = 4' is met			1	
2e	Award **1 mark** for evaluating the robustness of the program in relation to coping with a longer file. Award **1 mark each** for evaluating the usability of the program, for any two of the following: ♦ the general user interface ♦ the user prompts ♦ the screen layout ♦ any help screens Award **1 mark each** for evaluating the maintainability of the program, in relation to two of the following: ♦ internal commentary ♦ modularity ♦ white space ♦ meaning identifiers			5	**Evaluation (5)**