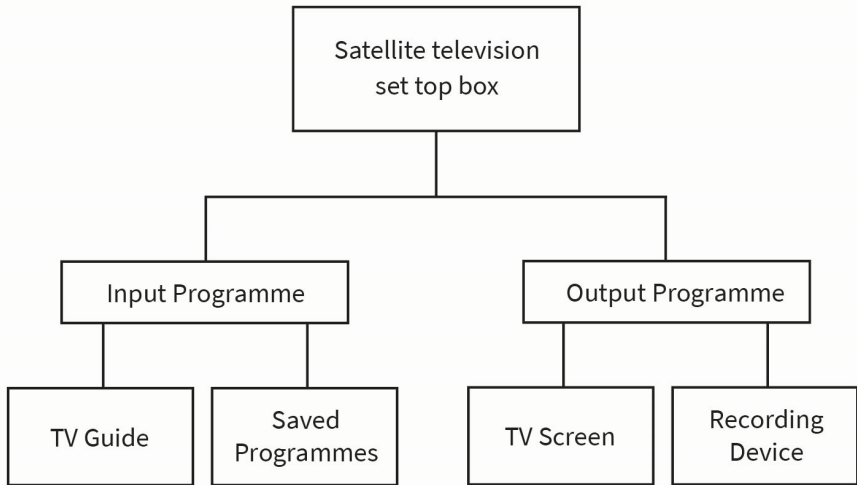


Oxford Revise | OCR Computer Science | Answers

Chapter 26 Decomposition

Question	Answer	Extra information	Marks	AO / Specification reference
1	Decomposition is breaking a larger problem down into smaller parts.	1 mark for correct definition.	1	AO1 2.1.1
2	 <pre> graph TD A[Satellite television set top box] --> B[Input Programme] A --> C[Output Programme] B --> D[TV Guide] B --> E[Saved Programmes] C --> F[TV Screen] C --> G[Recording Device] </pre>	<p>Marking points:</p> <ul style="list-style-type: none"> • A hierarchical structure diagram seen • Two sub-diagrams (input and output) • Correct input sub-diagram • Correct output sub-diagram. 	1 1 1 1	AO2 2.1.2

Question	Answer	Extra information	Marks	AO / Specification reference
3	<pre> procedure errorMessage() print("An error has been made") continue = input("Press any key to continue") endprocedure </pre>	<p>Marking points:</p> <ul style="list-style-type: none"> • Procedure defined correctly (procedure and endprocedure seen with correct name) • Correct output message • Correct input with prompt to hold the program until a key is pressed. 	<p>1 1 1</p>	<p>AO3 2.2.3</p>
4	<pre> if flag == True then errorMessage() endif </pre>	<p>Marking points:</p> <ul style="list-style-type: none"> • Comparison of flag variable using complete selection statement • Correct call of errorMessage() 	<p>1 1</p>	<p>AO3 2.2.3</p>
5	<p>The use of sub programs divides a large program into smaller self-contained parts. It is clearer as to the function of these individual parts, which makes the program more readable.</p>	<p>1 mark for each valid statement about how sub programs contribute to the maintainability of a program, up to a maximum of 2 marks.</p>	<p>1 1</p>	<p>AO2 2.3.1</p>