

Oxford Revise | OCR Computer Science | Answers

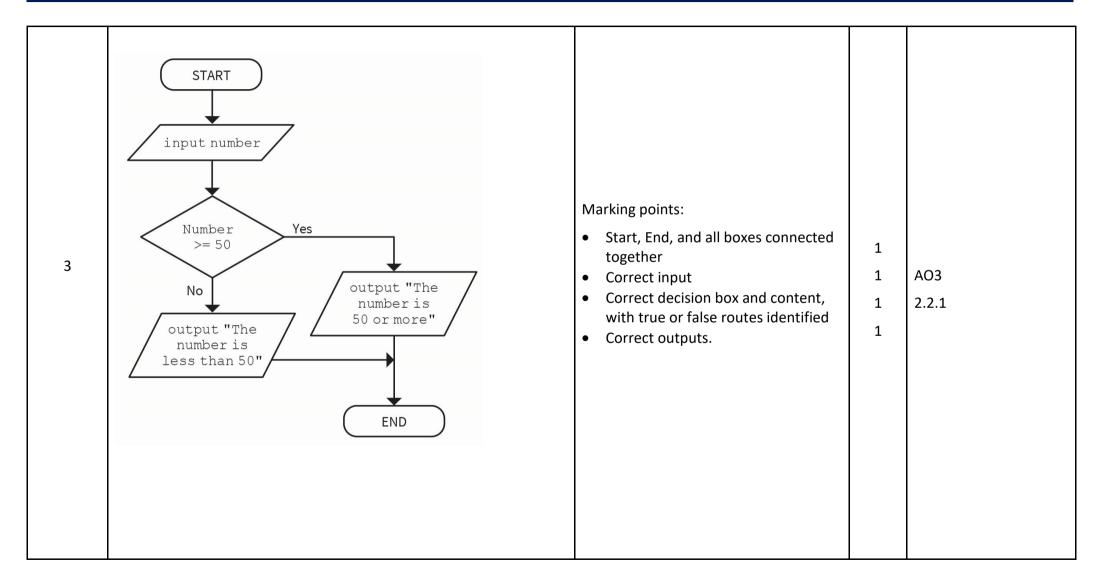
Chapter 21 Selection structure

Question	Answer		Extra information	Marks	AO / Specification reference
1	Operator > !=	Purpose Greater than Not equal to Less than or equal to	1 mark for each correct answer up to 3 marks. The shaded area is given in the question.	1 1 1	AO1 2.2.1



Question	Answer	Extra information	Marks	AO / Specification reference
2	<pre>number = input("Input a whole number") if number MOD 2 == 0 then print(number + "is even") else print("The number you entered is not even") endif</pre>	 Marking points: An input to an appropriate identifier An input prompt, either as part of the input statement, or as a standalone print statement if then else structure (or equivalent in the language used) Correct comparison seen in the if statement Appropriate output message, including the input number, if number is even Appropriate alternative message if number is not even. The input number does not need to be repeated in this statement. 	1 1 1 1	AO3 2.2.1

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Question	Answer	Extra information	Marks	AO / Specification reference
4	<pre>number = input("Enter a whole number between 1 and 4, inclusive") switch number: case 1: print("+") case 2: print("-") case 3: print("*") case 4: print("/") default: print("You have entered an incorrect number") endswitch</pre>	 Marking points: Input with an appropriate prompt Correct check for input of 1 Correct output for input of 1 Correct check for other allowed inputs (2, 3, 4) Correct output for inputs of 2, 3 or 4 Correct error message if anything other than 1 to 4 is entered. Note: The solution shown uses a switch statement. An alternative, such as a nested If would also be acceptable, unless the question says otherwise. 	1 1 1 1 1	AO3 2.2.1