Oxford Revise | OCR Computer Science | Answers

Chapter 30 Arrays

Question	Answer	Extra information	Marks	AO / Specification reference
1	An array is a data structure consisting of many data locations. When it is defined, the data locations are allocated to the array. The number of data locations allocated to the array does not change from the number originally allocated, meaning it is a fixed length data structure.	1 mark for each correct statement explaining why an array is a fixed length data structure, up to 2 marks.	1 1	AO1/AO2 2.2.3
| 2 | ```
for i = 0 to 49
    print(stock[i])
next i
``` | Marking points:<br><br>• Correct loop controls to read a fixed number of elements<br>• Elements from array `stock` read inside loop from 0 to 49<br>• Contents of array output.<br>Note: the array contents being read to an interim variable before being outputted is also acceptable. | 1<br>1<br>1 | AO3<br>2.2.3 |

Question	Answer	Extra information	Marks	AO / Specification reference
| 3 | ```
count = 0
while contacts[count, 0] != ""
    count = count + 1
endwhile
contacts[count, 0] = input("Enter a first name")
contacts[count, 1] = input("Enter a last name")
contacts[count, 2] = input("Enter a telephone number")
``` | Marking points:<br><br>• Appropriate method of finding the first empty row in the array<br>• Appropriate method to transfer the index of the first available row for use with the new inputs<br>• Inputting first name and storing in correct array element<br>• Inputting last name and storing in correct array element<br>• Inputting telephone number and storing in correct array element.<br><br>Note: Any alternative method that achieves the criteria of the question would also be acceptable. | 1<br><br>1<br>1<br><br>1<br><br>1 | AO3<br><br>2.2.3 |