

The answers on this worksheet have been taken from the OCR GCSE Computer Science Specimen Paper 2

6-A-Day – Computer Science GCSE (p2.6-2016)

Q1	<table border="1"> <tbody> <tr> <td>crime</td> <td>bait</td> <td>fright</td> <td>victory</td> <td>nymph</td> <td>loose</td> </tr> <tr> <td>bait</td> <td>crime</td> <td>fright</td> <td>victory</td> <td>nymph</td> <td>loose</td> </tr> <tr> <td>bait</td> <td>crime</td> <td>fright</td> <td>nymph</td> <td>victory</td> <td>loose</td> </tr> <tr> <td>bait</td> <td>crime</td> <td>fright</td> <td>nymph</td> <td>loose</td> <td>victory</td> </tr> <tr> <td>bait</td> <td>crime</td> <td>fright</td> <td>loose</td> <td>nymph</td> <td>victory</td> </tr> </tbody> </table>	crime	bait	fright	victory	nymph	loose	bait	crime	fright	victory	nymph	loose	bait	crime	fright	nymph	victory	loose	bait	crime	fright	nymph	loose	victory	bait	crime	fright	loose	nymph	victory	4 (AO2 1b)	1 mark for each row from row 2 – 5. Allow multiple swaps in one stage, where it is clear that a bubble sort has been applied.
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Q2	<ul style="list-style-type: none"> Comparing zebra to orange Greater, so split and take right side Further comparison (1 or 2 depending on choices made) Correct identification of zebra using methodology above <p>e.g.</p> <p>compare zebra to orange</p> <p>greater, split right</p> <p>compare to wind</p> <p>greater, split right</p> <p>compare to zebra</p>	4 (AO2 1b)	1 mark per bullet (multiple ways through, marks awarded for appropriate comparison and creation of sub groups).																														
Q3	<ul style="list-style-type: none"> Comments/annotation... ...To explain the key functions/sections ...E.g. any relevant example, such as line 4 checks the input is valid Indentation... ...To show where constructs/sections start and finish ...E.g. indenting within IF statement Using constants... ...so numbers can be updated easily ...E.g. π 	6 (AO2 1b)	1 mark for identification of an example from the programme. 1 mark for explanation of how it aids maintainability. 1 mark for contextualisation. Maximum of 3 marks per method.																														
Q4	<ul style="list-style-type: none"> radius area 	2 (AO1 1b)																															
Q5	<ul style="list-style-type: none"> 3.142 2 1 30 <hr/> <ul style="list-style-type: none"> The number does not need to be changed while the program is running The number can be updated once and it updates throughout 	1 (AO2 1a)	Maximum of 1 mark																														
Q6	<ul style="list-style-type: none"> Error diagnostics (any example) Run-time environment Editor (any feature such as auto-correct, auto-indent) Translator Version control Break point Stepping 	2 (AO1 1a)	1 mark per bullet to a maximum of 2 marks. Only 1 example per bullet, e.g. auto-correct and auto-indent would only gain 1 mark.																														