

Task	Expected response	Additional guidance	Marks available
<b>1</b>	<b>Software design and development</b>		
1ci	<p>Award <b>1 mark</b> for each bullet point</p> <p>Read in Athletes Data (3)</p> <ul style="list-style-type: none"> <li>♦ read data from file</li> <li>♦ assign athletes data to parallel arrays</li> <li>♦ module with data passed or returned to arrays</li> </ul> <p>Generate and store BibValue (4)</p> <ul style="list-style-type: none"> <li>♦ module with correct parameters passed</li> <li>♦ substrings extracted in loop and bib value concatenated</li> <li>♦ ASCII value of first letter of location concatenated</li> <li>♦ Write entry ID and bib value to file</li> </ul> <p>Find max number of jumps (3)</p> <ul style="list-style-type: none"> <li>♦ module with correct parameters passed in and out</li> <li>♦ loop from second athlete</li> <li>♦ initialise and find max jumps</li> </ul> <p>Display athletes with most jumps (1)</p> <ul style="list-style-type: none"> <li>♦ module with correct parameters passed in and athletes' full names displayed</li> </ul> <p>Implementation (2)</p> <ul style="list-style-type: none"> <li>♦ matching top level design (use function to find max jumps)</li> <li>♦ modular and maintainable (meaningful variable names and appropriate internal commentary)</li> </ul>	<p>A minimum of one comment describing the purpose of each module is required.</p>	<p>13</p> <p>Implementation</p>

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<b>1</b>	<b>Software design and development</b>			
1cii	Location of next years host (2) ♦ module with correct parameters passed in ♦ correct values counted for each location		2	
1d	<b>1 mark</b> each for: ♦ maxjumps set to jumps(0) with corresponding value of 100 ♦ watchpoint triggered at index 2 with value 102 ♦ watchpoint triggered at index 3 with value 108	Do not award marks for bullets two and three if treated as a trace table.	3	Testing
1e	Evaluation of following  Fitness for purpose ( <b>1 mark</b> ) ♦ Meets requirements to generate bib values and store to file  OR  ♦ Not fit for purpose as bib values may not be unique  Maintainability ( <b>1 mark</b> ) ♦ linking modularity to maintainability, e.g. the use of local variables allow modules to be edited independently.	Evaluation must contain an element of evaluation rather than simple statements of terms.  The candidate's code must also show evidence of this for a mark to be awarded.	2	Evaluation