

Task	Expected response	Max mark	Additional guidance
1c	<p><b>Read in company data (2 marks)</b></p> <ul style="list-style-type: none"> <li>♦ module with parameters passed or returned</li> <li>♦ assigned to three parallel arrays</li> </ul> <p><b>Find maximum position function (3 marks)</b></p> <ul style="list-style-type: none"> <li>♦ module with single formal parameter</li> <li>♦ loop to traverse to end of array with if statement to find correct maximum position</li> <li>♦ maximum position returned</li> </ul> <p><b>Calculate salary difference (4 marks)</b></p> <ul style="list-style-type: none"> <li>♦ module with correct parameters passed in (company, ceoSalary), nothing returned (message displayed within procedure)</li> <li>♦ array searched for selected company position</li> <li>♦ use of max position and found position to calculate difference between selected company salary and max salary</li> <li>♦ use of flag variable to implement not found message</li> </ul> <p><b>Find the highest number of employees (3 marks)</b></p> <ul style="list-style-type: none"> <li>♦ module with correct parameter passed in (numEmployees) and nothing passed out (message displayed within procedure)</li> <li>♦ count initialised and incremented</li> <li>♦ use of max position in condition to find those within 10%</li> </ul> <p><b>Implementation (3 marks)</b></p> <ul style="list-style-type: none"> <li>♦ single find max function called twice</li> <li>♦ function(s) called from within each subprocedure</li> <li>♦ modular and maintainable</li> </ul>	15	<p>Award 0 marks for bullet 1 if global variables are used in function.</p> <p>If maximum value is returned do not penalise its use in</p> <ul style="list-style-type: none"> <li>• salary difference bullet 3</li> </ul> <p>Accept use of max value/chosen value in difference calculation if maxpos/chosen pos has been used to assign value.</p> <p>If maximum value is returned do not penalise its use in</p> <ul style="list-style-type: none"> <li>• highest number of employees bullet 3</li> </ul> <p>Accept use of max num employess in calculation if maxpos has been used to assign value.</p> <p>Maintainable includes internal commentary, white space, meaningful variable and procedure names.</p>

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1d(i)	<ul style="list-style-type: none"> <li>♦ two companies have the same highest salary, only one would be displayed/ doesn't allow for the possibility of multiple CEO's salary being the same as the maximum</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>♦ the function only returns a single maxPos (rather than an array of positions)</li> </ul>	1	Do not accept two companies have the same salary.
1d(ii)	<ul style="list-style-type: none"> <li>♦ traverse ceoSalary array with a loop</li> <li>♦ compare ceoSalary against maximum salary</li> </ul> <p>OR</p> <p>array of max positions used</p>	2	Indication of salary must be in either bullet one or two.
1e	<ul style="list-style-type: none"> <li>♦ finding max algorithm is written once but called twice</li> <li>♦ local variables discarded after function is executed</li> <li>♦ is inefficient as the code has been repeated twice</li> </ul>	1	<p>Award 1 mark any one bullet.</p> <p>Answers must be relevant to candidate's code.</p>