

AQA Computer Science A-Level
4.3.4 Searching algorithms Past
Paper Mark Schemes

June 2011 Comp 3

| 1 | (a) | | <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">Position</th> <th style="padding: 2px;">Value</th> <th style="padding: 2px;">Order Examined In</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">8</td> <td style="padding: 2px;">Philip</td> <td style="text-align: center; padding: 2px;">1</td> </tr> <tr> <td style="text-align: center; padding: 2px;">10</td> <td style="padding: 2px;">Ravi</td> <td style="text-align: center; padding: 2px;">3</td> </tr> <tr> <td style="text-align: center; padding: 2px;">11</td> <td style="padding: 2px;">Richard</td> <td style="text-align: center; padding: 2px;">4</td> </tr> <tr> <td style="text-align: center; padding: 2px;">12</td> <td style="padding: 2px;">Timothy</td> <td style="text-align: center; padding: 2px;">2</td> </tr> </tbody> </table> <p style="margin-left: 100px;">; > ;</p> <p>1 mark for row 8 correct 1 mark for row 11 correct 1 mark for both rows 10 and 12 correct <i>Do not award mark for a particular number if same number is written more than once</i></p> | Position | Value | Order Examined In | 8 | Philip | 1 | 10 | Ravi | 3 | 11 | Richard | 4 | 12 | Timothy | 2 | 3 |
|----------|------------|-------------------|---|----------|-------|-------------------|---|--------|---|----|------|---|----|---------|---|----|---------|---|----------|
| Position | Value | Order Examined In | | | | | | | | | | | | | | | | | |
| 8 | Philip | 1 | | | | | | | | | | | | | | | | | |
| 10 | Ravi | 3 | | | | | | | | | | | | | | | | | |
| 11 | Richard | 4 | | | | | | | | | | | | | | | | | |
| 12 | Timothy | 2 | | | | | | | | | | | | | | | | | |
| 1 | (b) | 8 | | 1 | | | | | | | | | | | | | | | |

Specimen Paper 1

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|----|---|--|---|
| 04 | 1 | Mark is for AO1 (understanding) False; | 1 |
| 04 | 2 | Mark is for AO1 (understanding) THEN Failed \leftarrow True; | 1 |
| 04 | 3 | All marks AO1 (understanding) $L \leftarrow M - 1;$ Mark as follows: 1 mark: L; 1 mark: $\leftarrow M - 1;$ Maximum 1 mark: If not correct | 2 |