



Cambridge IGCSE™

COMPUTER SCIENCE

0478/23

Paper 2

May/June 2021

MARK SCHEME

Maximum Mark: 50

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the May/June 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of **17** printed pages.

PUBLISHED**Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

Please note the following further points:

The words in **bold** in the mark scheme are important text that needs to be present, or some notion of it needs to be present. It does not have to be the exact word, but something close to the meaning.

If a word is underlined, this **exact** word must be present.

A single forward slash means this is an alternative word. A double forward slash means that this is an alternative mark point.

Ellipsis (...) on the end of one-mark point and the start of the next means that the candidate **cannot** get the second mark point without being awarded the first one. If a MP has ellipsis at the beginning, but there is no ellipsis on the MP before it, then this is just a follow-on sentence and **can** be awarded **without** the previous mark point.

| Question | Answer | Marks |
|------------------|---|----------|
| Section A | | |
| 1(a)(i) | <p>One mark per bullet point</p> <ul style="list-style-type: none"> • Constant <code>NumberOfOptions</code> • Value <code>5</code> • Use Storing the maximum number of options (for the referendum) | 3 |
| 1(a)(ii) | <p>One mark per bullet point</p> <ul style="list-style-type: none"> • Variable <code>UniqueNumber</code> • Use Storing/inputting the voter's unique identification number | 2 |
| 1(a)(iii) | <p>One mark for each valid mark point (Max 4)</p> <ul style="list-style-type: none"> • Suitable name e.g. <code>IdNumber</code> • Suitable data type e.g. <code>Integer</code> • Suitable array length e.g. <code>170</code> (elements) • Suitable sample data e.g. <code>100</code> • Suitable use e.g. to store the unique numbers | 4 |

| Question | Answer | Marks |
|----------|--|-------|
| 1(b) | <p>Any six from:</p> <p>MP1 Initialisation of totalling variables MP2 Loop to cycle through all the data MP3 Totalling the votes for at least one of the options MP4 Totalling the votes for all five options MP5 Separate totals for students and staff MP6 Output to show one set of results MP7 Output to show more than one set of results with messages MP8 Comprehensive output to show student, staff and combined results, with messages</p> <p>Example answers Version 1</p> <pre>TotalAS ← 0; TotalBS ← 0; TotalCS ← 0; TotalDS ← 0; TotalesES ← 0; TotalAF ← 0; TotalBF ← 0; TotalCF ← 0; TotalDF ← 0; TotaleEF ← 0 FOR Count ← 0 TO 150 TotalAS ← TotalAS + StudentA[Count] TotalBS ← TotalBS + StudentB[Count] TotalCS ← TotalCS + StudentC[Count] TotalDS ← TotalDS + StudentD[Count] TotalesES ← TotalesES + StudentE[Count] NEXT Count FOR Count = 0 TO 20 TotalAF ← TotalAF + StaffA [Count] TotalBF ← TotalBF + StaffA [Count] TotalCF ← TotalCF + StaffA [Count] TotalDF ← TotalDF + StaffA [Count] TotaleEF ← TotaleEF + StaffA [Count] NEXT Count OUTPUT "Option Students Staff Total" OUTPUT "A ", TotalAS, TotalAF, (TotalAS + TotalAF) OUTPUT "B ", TotalBS, TotalBF, (TotalBS + TotalBF) OUTPUT "C ", TotalCS, TotalCF, (TotalCS + TotalCF) OUTPUT "D ", TotalDS, TotalDF, (TotalDS + TotalDF) OUTPUT "E ", TotalesES, TotaleEF, (TotalesES + TotaleEF)</pre> | 6 |

| Question | Answer | Marks |
|----------|---|-------|
| 1(b) | <p>Version 2</p> <pre> TotalAS ← 0; TotalBS ← 0; TotalCS ← 0; TotalDS ← 0; TotalesES ← 0; TotalAF ← 0; TotalBF ← 0; TotalCF ← 0; TotalDF ← 0; TotaleEF ← 0 OUTPUT "Are you a student? (Y or N)" INPUT Student IF Student = "Y" THEN OUTPUT "Enter your number" INPUT Number IF Students[Number] = 0 THEN REPEAT OUTPUT "Enter preference for A" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalAS ← TotalAS + Vote REPEAT OUTPUT "Enter preference for B" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalBS ← TotalBS + Vote REPEAT OUTPUT "Enter preference for C" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalCS ← TotalCS + Vote REPEAT OUTPUT "Enter preference for D" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalDS ← TotalDS + Vote REPEAT OUTPUT "Enter preference for E" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalesES ← TotalesES + Vote </pre> | |

| Question | Answer | Marks |
|----------|---|-------|
| 1(b) | <pre> Student [Number] ← 1 ELSE OUTPUT "Enter your number" INPUT Number IF staff [number] = 0 THEN REPEAT OUTPUT "Enter preference for A" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalAS ← TotalAS + Vote REPEAT OUTPUT "Enter preference for B" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalBS ← TotalBS + Vote REPEAT OUTPUT "Enter preference for C" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalCS ← TotalCS + Vote REPEAT OUTPUT "Enter preference for D" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 TotalDS ← TotalDS + Vote REPEAT OUTPUT "Enter preference for E" INPUT Vote UNTIL Vote >= 1 and Vote <= 5 Totales ← Totales + Vote Staff [Number] ← 1 ENDIF </pre> | |

| Question | Answer | Marks |
|----------|--|----------|
| 1(b) | OUTPUT "Option Students Staff Total " OUTPUT "A ", TotalAS, TotalAF, (TotalAS + TotalAF) OUTPUT "B ", TotalBS, TotalBF, (TotalBS + TotalBF) OUTPUT "C ", TotalCS, TotalCF, (TotalCS + TotalCF) OUTPUT "D ", TotalDS, TotalDF, (TotalDS + TotalDF) OUTPUT "E ", TotalES, TotalEF, (TotalES + TotalEF) | |
| 1(c) | Any two from: MP1 Change the maximum preferences constant to 6 MP2 Change the input prompt to show six options MP3 Change the loop counter MP4 Change the number of inputs for each person to six MP5 Add another array/variable to store/total the new option votes | 2 |
| 1(d) | Explanation Any three from: MP1 Initialise count variables/array for each option MP2 Using a conditional statement to identify preference 1 in at least one option (in the input/stored data) MP3 ... identify preference 1 in all options MP4 ... and adding 1 to the appropriate option count in at least one option MP5 ... for students only MP6 ... using a loop to cycle through the whole array/set of inputs for each option | 3 |

| Question | Answer | Marks | | | | | | | | | | |
|------------------|--|-----------|-------------|------|------------------------|--------|---------------------------|---------|-------------------|---------|---|----------|
| Section B | | | | | | | | | | | | |
| 2 | <p>Three marks for three or four correct Two marks for two correct One mark for one correct</p> <table border="0" style="width: 100%;"><thead><tr><th data-bbox="353 419 577 451" style="text-align: center;">Data Type</th><th data-bbox="1025 419 1189 451" style="text-align: center;">Description</th></tr></thead><tbody><tr><td data-bbox="353 480 577 539" style="text-align: center; border: 1px solid black;">Real</td><td data-bbox="835 480 1317 539" style="text-align: center; border: 1px solid black;">Must be a whole number</td></tr><tr><td data-bbox="353 571 577 630" style="text-align: center; border: 1px solid black;">String</td><td data-bbox="835 571 1317 630" style="text-align: center; border: 1px solid black;">Must be one of two values</td></tr><tr><td data-bbox="353 662 577 721" style="text-align: center; border: 1px solid black;">Integer</td><td data-bbox="835 662 1317 721" style="text-align: center; border: 1px solid black;">May be any number</td></tr><tr><td data-bbox="353 753 577 812" style="text-align: center; border: 1px solid black;">Boolean</td><td data-bbox="835 753 1317 812" style="text-align: center; border: 1px solid black;">May contain any combination of characters</td></tr></tbody></table> | Data Type | Description | Real | Must be a whole number | String | Must be one of two values | Integer | May be any number | Boolean | May contain any combination of characters | 3 |
| Data Type | Description | | | | | | | | | | | |
| Real | Must be a whole number | | | | | | | | | | | |
| String | Must be one of two values | | | | | | | | | | | |
| Integer | May be any number | | | | | | | | | | | |
| Boolean | May contain any combination of characters | | | | | | | | | | | |

| Question | Answer | Marks |
|----------|---|----------|
| 3 | <p>One mark per mark point for each piece of test data (3 × two marks)</p> <ul style="list-style-type: none"> • Correct validation check name • Correct use identified <p>Example answers</p> <p>ld27@cambridgeuniversity.com</p> <ul style="list-style-type: none"> • Validation check name Length (check) • Use Counts the number of characters in the data to make sure it isn't too long (max length 320 characters). <p>2021</p> <ul style="list-style-type: none"> • Validation check name Range (check) • Use Checks that the number entered fits within given parameters <p>Ericson-Bower</p> <ul style="list-style-type: none"> • Validation check name Type (check) • Use Checks the type of data entered (in this case) to make sure no numbers are present | 6 |

| Question | Answer | Marks |
|----------|--|-------|
| 4(a) | <p>One mark for error identified and suggested correction</p> <p>Line 3 – should be <code>FullScore ← 0</code> Line 7 – should be <code>FullScore ← FullScore + Score</code> Line 8 – should be <code>NEXT Allow ENDFOR //</code> alternatively Line 5 could be <code>REPEAT</code> with <code>StoreLoop ← 0</code> just above it and <code>StoreLoop ← StoreLoop + 1</code> between lines 7 and 8. Line 11 – should be <code>INPUT Another</code></p> <p>Correct Algorithm 1</p> <pre> 1 Count ← 0 2 REPEAT 3 FullScore ← 0 4 INPUT Number 5 FOR StoreLoop ← 1 TO Number 6 INPUT Score 7 FullScore ← FullScore + Score 8 NEXT 9 OUTPUT "The full score is ", FullScore 10 OUTPUT "Another set of scores (Y or N)?" 11 INPUT Another 12 IF Another = "N" 13 THEN 14 Count ← 1 15 ENDIF 16 UNTIL Count = 1 </pre> | 4 |

| Question | Answer | Marks |
|----------|--|-------|
| 4(a) | <p>Correct Algorithm 2</p> <pre> 1 Count ← 0 2 REPEAT 3 FullScore ← 0 4 INPUT Number StoreLoop ← 0 5 REPEAT 6 INPUT Score 7 FullScore ← FullScore + Score StoreLoop ← StoreLoop + 1 8 UNTIL StoreLoop = Number 9 OUTPUT "The full score is ", FullScore 10 OUTPUT "Another set of scores (Y or N)?" 11 INPUT Another 12 IF Another = "N" 13 THEN 14 Count ← 1 15 ENDIF 16 UNTIL Count = 1 </pre> | |

| Question | Answer | Marks |
|----------|--|-------|
| 4(b) | <p>One mark per mark point (Max 4)</p> <p>MP1 After line 6 // replace line 6</p> <p>MP2 ScoreArray[StoreLoop] ← Score // INPUT ScoreArray[StoreLoop]</p> <p>MP3 between lines 8 and 10</p> <p>MP4 AverageScore ← FullScore/Number</p> <p>MP5 OUTPUT "The average score is ", AverageScore</p> <p>Example correct algorithm for reference from part 4(a)</p> <pre> 1 Count ← 0 2 REPEAT 3 FullScore ← 0 4 INPUT Number 5 FOR StoreLoop ← 1 TO Number 6 INPUT Score 7 FullScore ← FullScore + Score 8 NEXT 9 OUTPUT "The full score is ", FullScore 10 OUTPUT "Another set of scores (Y or N)?" 11 INPUT Another 12 IF Another = "N" 13 THEN 14 Count ← 1 15 ENDIF 16 UNTIL Count = 1 </pre> | 4 |

| Question | Answer | Marks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5(a) | <p>One mark for each correct column</p> <table border="1" data-bbox="645 280 1626 1385"> <thead> <tr> <th>Op</th> <th>Value1</th> <th>Value2</th> <th>Ans</th> <th>OUTPUT</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>87</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>14</td> <td>101</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>30</td> <td>60</td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>10</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>6</td> <td></td> <td>Input Error</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>10</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>2</td> <td>5</td> <td></td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Op | Value1 | Value2 | Ans | OUTPUT | 1 | | | | | | 87 | | | | | | 14 | 101 | | 3 | | | | | | 2 | | | | | | 30 | 60 | | 5 | | | | | | 10 | | | | | | 6 | | Input Error | 4 | | | | | | 10 | | | | | | 2 | 5 | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Op | Value1 | Value2 | Ans | OUTPUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 6 | | Input Error | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Question | Answer | Marks |
|----------|---|-------|
| 5(b) | To work as a calculator // to add, subtract, multiply or divide a pair of numbers | 1 |
| 5(c) | To output/store the result/the value of Ans // Adding prompts for data entry. | 1 |

| Question | Answer | Marks | | | | | | | |
|------------|--|------------|-----------|---------|----------|----------|----------|----------|---|
| 6(a) | <p>Two marks for six correct field names One mark for at least three correct field names</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Field name</th> </tr> </thead> <tbody> <tr> <td>LicenceNo</td> </tr> <tr> <td>Mileage</td> </tr> <tr> <td>TyreFLft</td> </tr> <tr> <td>TyreFRgt</td> </tr> <tr> <td>TyreRLft</td> </tr> <tr> <td>TyreRRgt</td> </tr> </tbody> </table> | Field name | LicenceNo | Mileage | TyreFLft | TyreFRgt | TyreRLft | TyreRRgt | 2 |
| Field name | | | | | | | | | |
| LicenceNo | | | | | | | | | |
| Mileage | | | | | | | | | |
| TyreFLft | | | | | | | | | |
| TyreFRgt | | | | | | | | | |
| TyreRLft | | | | | | | | | |
| TyreRRgt | | | | | | | | | |

| Question | Answer | | | | | | Marks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------|-----------|---------|----------|----------|----------|----------|--------|-------|-------|-------|-------|-------|-------|-------|-----------|--|--|--|--|--|-------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------|--|--|----|----|----|----|-----|--|--|--|--|--|--|---|
| 6(b) | <p>One mark for correct fieldnames One mark for correct table names and show fields One mark for correct sort One mark for correct search criteria in all columns</p> <table border="1" data-bbox="495 384 1850 778"> <tr> <td data-bbox="398 384 495 448">Field:</td> <td data-bbox="495 384 719 448">LicenceNo</td> <td data-bbox="719 384 943 448">Mileage</td> <td data-bbox="943 384 1167 448">TyreFLft</td> <td data-bbox="1167 384 1391 448">TyreFRgt</td> <td data-bbox="1391 384 1615 448">TyreRLft</td> <td data-bbox="1615 384 1850 448">TyreRRgt</td> </tr> <tr> <td data-bbox="398 448 495 512">Table:</td> <td data-bbox="495 448 719 512">TREAD</td> <td data-bbox="719 448 943 512">TREAD</td> <td data-bbox="943 448 1167 512">TREAD</td> <td data-bbox="1167 448 1391 512">TREAD</td> <td data-bbox="1391 448 1615 512">TREAD</td> <td data-bbox="1615 448 1850 512">TREAD</td> </tr> <tr> <td data-bbox="398 512 495 576">Sort:</td> <td colspan="6" data-bbox="495 512 1850 576">Ascending</td> </tr> <tr> <td data-bbox="398 576 495 639">Show:</td> <td data-bbox="495 576 719 639"><input checked="" type="checkbox"/></td> <td data-bbox="719 576 943 639"><input checked="" type="checkbox"/></td> <td data-bbox="943 576 1167 639"><input checked="" type="checkbox"/></td> <td data-bbox="1167 576 1391 639"><input checked="" type="checkbox"/></td> <td data-bbox="1391 576 1615 639"><input checked="" type="checkbox"/></td> <td data-bbox="1615 576 1850 639"><input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="398 639 495 703">Criteria:</td> <td colspan="2" data-bbox="495 639 719 703"></td> <td data-bbox="943 639 1167 703"><2</td> <td data-bbox="1167 639 1391 703"><2</td> <td data-bbox="1391 639 1615 703"><2</td> <td data-bbox="1615 639 1850 703"><2</td> </tr> <tr> <td data-bbox="398 703 495 778">or:</td> <td colspan="6" data-bbox="495 703 1850 778"></td> </tr> </table> | | | | | | Field: | LicenceNo | Mileage | TyreFLft | TyreFRgt | TyreRLft | TyreRRgt | Table: | TREAD | TREAD | TREAD | TREAD | TREAD | TREAD | Sort: | Ascending | | | | | | Show: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Criteria: | | | <2 | <2 | <2 | <2 | or: | | | | | | | 4 |
| Field: | LicenceNo | Mileage | TyreFLft | TyreFRgt | TyreRLft | TyreRRgt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Table: | TREAD | TREAD | TREAD | TREAD | TREAD | TREAD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Show: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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