

2 (a) Identify the type of validation check in each description. Each check must be different.

(i) A check to make sure that data input follows a set pattern such as two letters followed by three numbers.

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(ii) A check to make sure that only whole numbers can be input.

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(b) Explain the reasons why validation checks are necessary when data is input.

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(c) Write the pseudocode for an algorithm to perform a validation check on each number as it is input to meet the following criteria:

- Input 20 numbers, one at a time.
- If a number is negative, store it in the current element of array `NegNumbers []`
- If a number is **not** negative, ask for it to be input again until a negative number is input.
- When all 20 negative numbers have been stored, output a message to state the check has been completed.

Use appropriate input prompts and output messages to make the requirements clear to the user.

Do **not** declare any arrays or variables for this algorithm.

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