4 **(a)** A length check is a type of validation check.

State the purpose of a length check.

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..... [1]

(b) An email address can be validated by checking that it contains an @ symbol.

Write the pseudocode for an algorithm that will allow an email address to be input and check whether or not it contains an @ symbol.

Output a suitable message with the result.

Use the string function `SUBSTRING(EmailAddress, Start, 1)` in your solution to return a string of length 1 character, starting at position `Start`, where `EmailAddress` is the identifier representing your input.

You do **not** need to declare any variables for this algorithm, but variables must be initialised as necessary. Assume there will **not** be more than **one** @ symbol in the email address input.

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