

4 (a) An input must be an integer between 10 and 95, inclusive.

(i) State the type of validation check to test if the input meets this requirement.

..... [1]

(ii) Suggest suitable abnormal and extreme test data for an integer between 10 and 95 inclusive, and give a reason for each of your choices.

Abnormal test data

Reason

.....

Extreme test data

Reason

.....

[4]

(b) A password system requires all new passwords to contain at least 12 characters.

(i) State the type of validation check to test that the password meets this requirement.

..... [1]

(ii) Write the pseudocode to allow a new password to be entered and to ensure that it contains at least 12 characters. The password is re-input until it meets this requirement. Use an appropriate error message for inputs that do **not** meet the requirement.

You do **not** need to declare any variables for this algorithm.

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[5]