

1 An algorithm is developed in pseudocode before being coded in a programming language.

(a) The following table shows four valid pseudocode assignment statements.

Complete the table by giving an appropriate data type to declare each of the variables A, B, C and D.

Assignment statement	Data type
A ← LEFT(MyName, 1)	
B ← Total * 2	
C ← INT(ItemCost) / 3	
D ← "Odd OR Even"	

[4]

(b) Other variables in the program have example values as shown:

Variable	Value
Sorted	False
Tries	9
ID	"ZGAC001"

Complete the table by evaluating each expression, using the example values.

Expression	Evaluates to
Tries < 10 AND NOT Sorted	
Tries MOD 4	
TO_LOWER(MID(ID, 3, 1))	
LENGTH(ID & "xx") >= Tries	

[4]

(c) The variable names A, B, C and D in part (a) are **not** good programming practice.

(i) State why these variable names are **not** suitable.

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 [1]

(ii) Identify **one** problem that these variable names might cause.

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 [1]

(iii) The choice of suitable variable names is one example of good programming practice.

Give **one other** example.

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 [1]