5 An algorithm has been written in pseudocode to calculate the profit when an item is sold. Values for cost price and selling price are input, the profit is calculated (selling price – cost price) and output. The input of zero for either value stops the algorithm.

```
01 REPEAT
02     OUTPUT "Enter cost price "
03     INPUT Cost
04     OUTPUT "Enter selling price "
05     OUTPUT Sell
06     IF Cost <> 0 OR Sell <> 0
07       THEN
08         Profit ← Sell - Cost
09         OUTPUT "Profit is ", Profit
10     NEXT
11 UNTIL Cost = 0 OR Sell = 0
```

(a) Identify the line numbers of **three** errors in the pseudocode and suggest corrections.

Error 1 line number .....

Correction .....

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Error 2 line number .....

Correction .....

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Error 3 line number .....

Correction .....

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[3]

(b) This algorithm needs to be improved with a range check.

(i) Write pseudocode to reject the input of values less than zero for variables `Cost` and `Sell`

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[3]

(ii) Describe **two** other validation checks that should be included in this algorithm.

Check 1 .....

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Check 2 .....

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[4]