

Q1

Count  $\leftarrow$  1

Total  $\leftarrow$  0

Weighting  $\leftarrow$  10

REPEAT

    INPUT Digit

    Value  $\leftarrow$  Digit \* Weighting

    Total  $\leftarrow$  Total + Value

    Weighting  $\leftarrow$  Weighting - 1

    Count  $\leftarrow$  Count + 1

UNTIL Count = 9

Remainder  $\leftarrow$  Total MOD 11

CheckDigit  $\leftarrow$  11 - Remainder

IF CheckDigit = 10

    THEN

        CheckDigit  $\leftarrow$  X

ENDIF

Q3

RogueValue  $\leftarrow$  -1

Total  $\leftarrow$  0

Count  $\leftarrow$  0

INPUT Number

WHILE Number  $\neq$  RogueValue

    Count  $\leftarrow$  Count + 1

    Total  $\leftarrow$  Total + Number

    INPUT Number

ENDWHILE

IF Count > 0

    THEN

        Average  $\leftarrow$  Total / Count

        OUTPUT Average

ENDIF