

Q3 A

CipherChar : CHAR

Lookup : ARRAY

BOOLEAN

Index

Initialize the array index

Found = False

CipherChar = Lookup[Index]

Found = True

Index ← Index + 1

OriginalChar ← Lookup Index

OriginalChar

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A

PROCEDURE BubbleSort():

FOR i ← 1 TO 99:

FOR j ← i + 1 TO 100:

IF User/NameArray[i] > User/NameArray[j]

THEN

① (LEFT(...; 6)) c ← User/NameArray[i]

User/NameArray[i] ← User/NameArray[j]

User/NameArray[j] ← c

ENDIF

ENDFOR

ENDFOR

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a.

```
Total ← 0
ZeroCount ← 0
FOR i ← 1 TO 100
    Total ← Total + Arr[i]
    IF Arr[i] = 0
        THEN
            ZeroCount ← ZeroCount + 1
        ENDIF
    ENDFOR
Avg ← Total / 100
OUTPUT "Zeros is"
OUTPUT ZeroCount
OUTPUT "Average is"
OUTPUT Avg
```

b.

```
PROCEDURE ScanArray(AverageValue: REAL
    ZeroCount: INTEGER
    Array Name: STRING)
```