

left(s : STRING, x : INTEGER) RETURNS STRING

returns leftmost x characters from s

eg

left("abcd", 2) will return "ab"

A function, firstLetters, accepts an array of STRINGS as a parameter. It processes the array by extracting the first character from each string in the array and concatenating them into a single result STRING. It returns the result to the calling program.

For example:

w = ["hello", "i", "play", "perfect", "yoga"]

s = firstLetters(w)

print(s)

will display "hippy"

The pseudocode for the function is given, along with a calling program.

Write this algorithm in program code.

```
FUNCTION firstLetters(words:ARRAY[1:n] OF STRING) RETURNS STRING
    DECLARE result : STRING
    DECLARE i : INTEGER

    FOR i ← 1 TO n
        result = result & LEFT(words[i],1)
    END FOR

    RETURN result
END FUNCTION
```

```
//computer program

DECLARE w : ARRAY[1:5] OF STRING
DECLARE newWord : STRING

w ← ["yellow", "eggs", "taste", "incredible"]

//call the function, passing the array as an argument
newWord ← firstLetters(w)

OUTPUT newWord
```

Corrective maintenance

Test your code and fix any bugs that appear.

Adaptive maintenance

The computer program needs another function that will accept a word list as a parameter and calculate the total number of characters in all of the words. The function is called totalWords. Code this function and then translate it into pseudocode.