

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

returns rightmost x characters from s

eg

right("abcd", 2) will return "cd"

A function, lastLetters, accepts 2 arrays of STRINGS as arguments. It compares the last 3 characters of strings at the same index in each array. It returns TRUE if every pair of STRINGS ends with the same 3 characters

For example:

a1 = ["hello", "figo", "perfect", "yoga"]

a2 = ["cello", "indigo", "insect", "toga"]

s = lastLetters(a1,a2)

print(s)

will display TRUE

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

Write this algorithm in program code.

```
FUNCTION lastLetters(words1:ARRAY[1:n] OF STRING, words2:ARRAY[1:n]
                                OF STRING) RETURNS BOOLEAN
```

```
    DECLARE result : BOOLEAN
    DECLARE i : INTEGER
```

```
    result ← TRUE
```

```
    FOR i ← 1 TO n
```

```
        IF right(words1,3) <> right(words2,3) THEN
```

```
            result ← FALSE
```

```
        END IF
```

```
    END FOR
```

```
    RETURN result
```

```
END FUNCTION
```

```
//computer program
```

```
DECLARE w1, w2 : ARRAY[1:5] OF STRING
```

```
DECLARE newWord : STRING
```

```
w1 ← ["yellow", "eggs", "taste", "incredible"]
```

```
w2 ← ["low", "begs", "waste", "edible"]
```

```
//call the function, passing the arrays as an argument
```

```
OUTPUT lastLetters(w1,w2)
```

Corrective maintenance

Test your code and fix any bugs that appear.

Adaptive maintenance

The function needs to check that the two arrays are the same length. If they are not, the function displays a warning and returns FALSE.

Write the pseudocode for this adaptation.