012 An algorithm a day...

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Algorithm Question Source:	OCR GCSE Computing Additional Specimen Exam	
You are writing a program that uses an array called V contains 10 foreign words in alphabetical order. The	· ·	
are shown on the left.	WordList (1) akesi	
You need to write a an algorithm in pseudocode that - allows the user to input a word, - goes through the items in the array WordList in to	WordList(8) olin WordList(9) taso WordList(10) walo	
WordList(1),if it finds the word that the user has input, it outp	outs "Word found". [5 marks]	

Algorithm Example Answer

You are writing a program that uses an array called WordList. This array contains 10 foreign words in alphabetical order. The contents of the array

are shown on the left.

vvordList (1)	akesi
WordList(2)	esun
WordList(3)	jaki
WordList(4)	kala
WordList(5)	lipu
WordList(6)	mama
WordList(7)	nasa
WordList(8)	olin
WordList(9)	taso
WordList(10)	walo

You need to write a an algorithm in pseudocode that:

- allows the user to input a word,
- goes through the items in the array WordList in turn, starting from the WordList(1),
- if it finds the word that the user has input, it outputs "Word found".

[5 marks]

There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!

LOGIC:

- Input a word
- Code contains a loop starting from item 1
- ... compares the word searched to the current item
- ... outputs "Word Found" if there is a match
- loop stops when you get to item 10

INPUT SearchWord

EXAMPLE ALGORITHM:

```
FOR count 1 to Length (WordList)
    IF WordList(count) = SearchWord THEN
       OUTPUT "Word Found"
    END IF
```