005 An algorithm a day...

Algorithm Question

Consider the array **numbers = [2, 5, 3, 6, 2, 3, 6, 4]** where the value of numbers(2) is 3.

Write an algorithm in pseudocode which:

- Adds up the numbers in the array
- Displays the result.
 To get full marks a loop should be used in your algorithm.

[5 marks]

Algorithm Example Answer

Consider the array **numbers = [2, 5, 3, 6, 2, 3, 6, 4]** where the value of numbers(2) is 3.

Write an algorithm in pseudocode which:

- Adds up the numbers in the array
- Displays the result.
 To get full marks a loop should be used in your algorithm.

[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:

- A variable to hold the total (running total) should be declared
- A loop should be used which will run for the same number of times as there are items in the array
- Inside the loop the next array item should accessed using the counter as the index...
- ...and it should be added to the total
- At the end of the loop, the total should be outputted to the screen

EXAMPLE ALGORITHM:

total = 0

FOR counter 0 to lengthOfNumbers

total = total + numbers(counter)

OUTPUT total