

Worksheet 2

1. The below algorithm determines the average of three numbers. The values (1 to 4) are line numbers.

1. Read a, b
2. $\text{sum} \leftarrow a + b + c$
3. $\text{Avg} \leftarrow \text{sum}/2$
4. Print Average

(a) Use the line numbers to identify the following parts of the algorithm

(i) input (ii) mathematical operation (iii) output

(b) There are THREE errors in the algorithm. Rewrite the algorithm with the corrections.

2. (a) Write an algorithm to do the following tasks:

1. read a number into a variable x
2. multiply the number by 10 and store the result in a variable y
3. subtract 5 from y and store the result in a variable z
4. print y ,z

(b) What is printed when $x = 5$?