2.

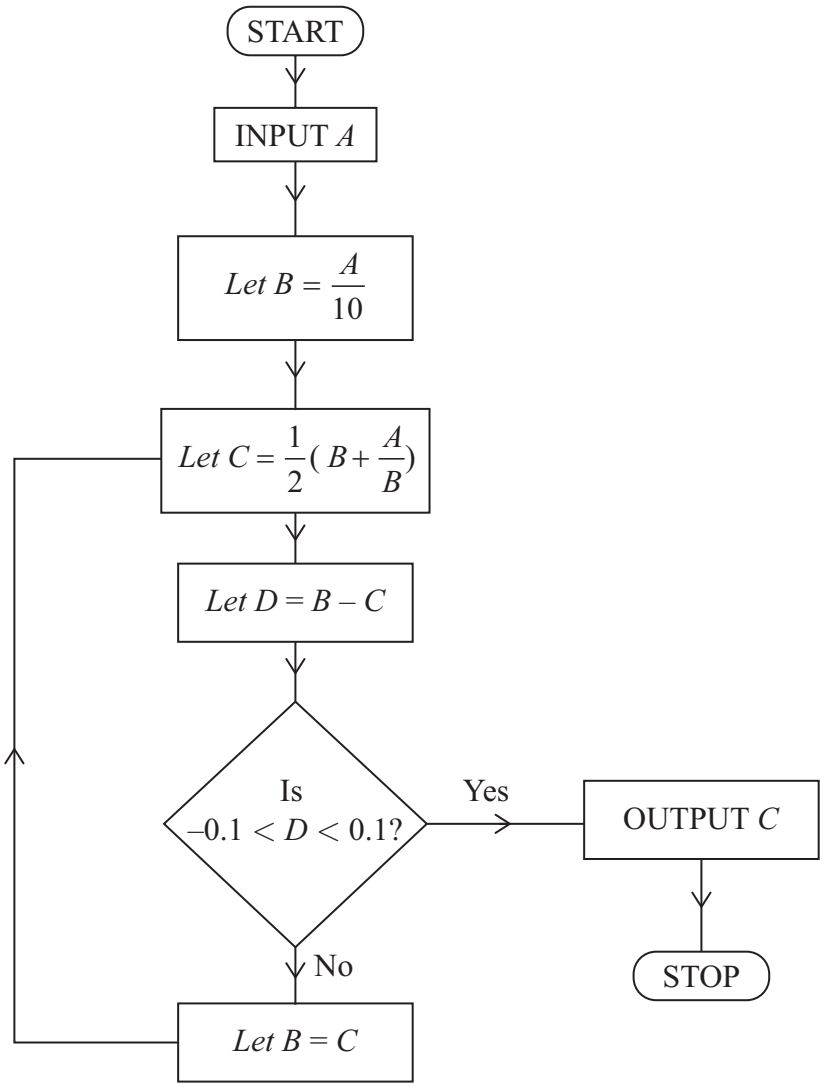


Figure 1

The flowchart for an algorithm is shown above.

The input for the algorithm is a positive number.

(a) Apply the algorithm using $A = 1250$. You must complete the table in the answer book, showing the results at each step of the algorithm. Give your values to 3 decimal places where necessary.

(4)

(b) State how the output, C, relates to the input, A

(1)

(Total for Question 2 is 5 marks)