2.

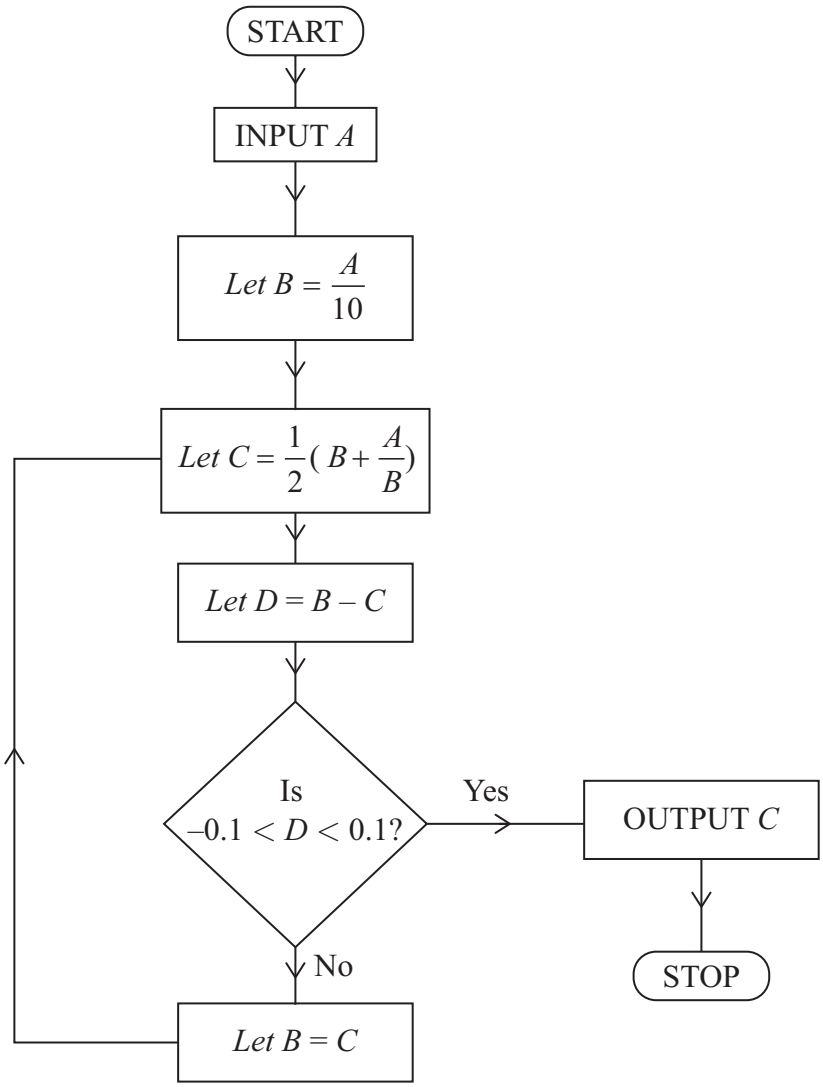


Figure 1

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)

2. *You may not need to use all the rows in this table.*

A	*B*	*C*	*D*	Is $-0.1 < D < 0.1$?

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

Question 2 continued

A	*B*	*C*	*D*	Is $-0.1 < D < 0.1$?

Output _____

(Total for Question 2 is 5 marks)

DO NOT WRITE IN THIS AREA
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