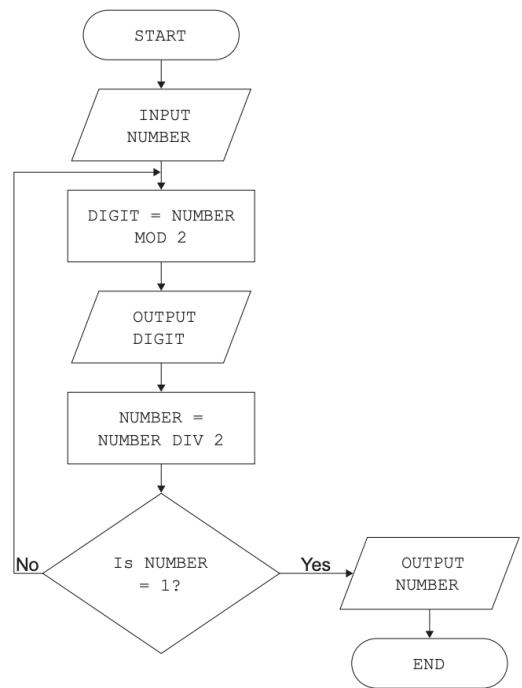


The following flowchart represents a standard algorithm:



(a) Copy and complete the table that traces the algorithm in the flowchart using an input value of 19.

[4]

NUMBER	DIGIT	OUTPUT
19		

(b) State the purpose of the algorithm.

[1]

- (c) Construct the algorithm from the flowchart using pseudocode. Add additional pseudocode to ensure that input is validated to only allow positive integers to be entered. [6]

Note: in Paper 1 you can write your answers in Java.