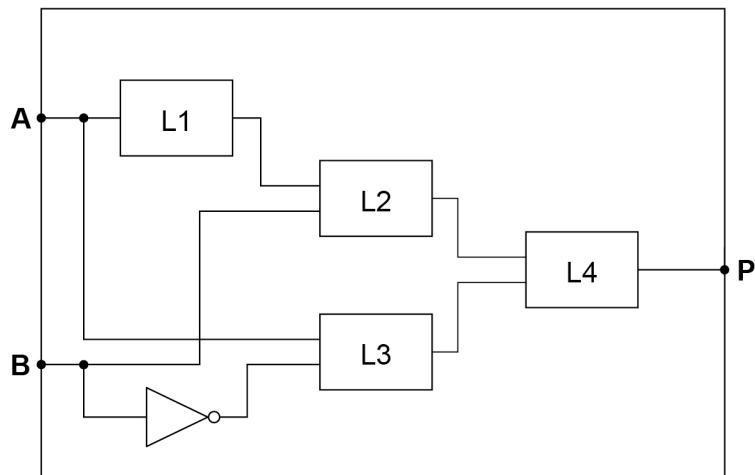


A partially complete logic circuit is shown in **Figure 2** that detects if a computer system has been set up correctly. There are two keyboard input devices, keyboard **A** and keyboard **B**, and either one can be connected to the computer system. However, if they are both connected then the computer system will not work.

Output **P** has the value 1 if either keyboard **A** or keyboard **B**, but not both, is connected to the computer system and 0 otherwise.

Figure 2



0 3 . 2

State the name of the logic gates that should be placed in the positions indicated by the labels **L1**, **L2**, **L3** and **L4** in **Figure 2**.

[3 marks]

Label	Logic gate
L1	
L2	
L3	
L4	

4

Turn over for the next question

Turn over ►

