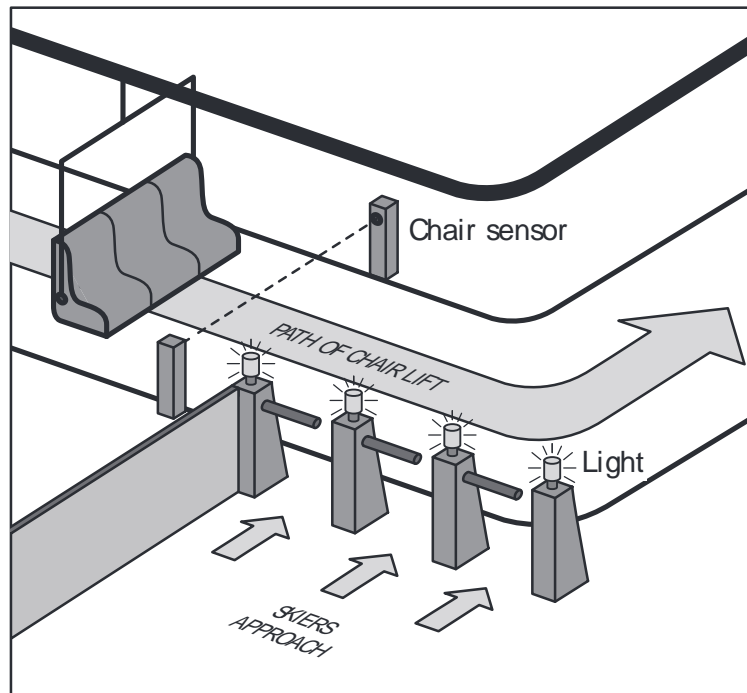


13. A chair lift system at a ski resort is operated by a microcontroller.



The system must perform the following sequence.

- When the chair sensor is triggered warning lights flash 4 times over a 2 second period.
- The barriers will then open.
- The system will pause for 3 seconds to allow the skiers through.
- The barriers will then close.
- The sequence will repeat.

Input and output connections to the microcontroller are shown in the table below.

Input Connection	Pin	Output Connection
	2	Barriers (1 = open)
	1	Warning lights
Chair sensor (1 = chair sensed)	0	

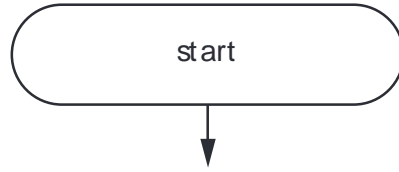
Complete the flowchart opposite for the control sequence with reference to the Data Booklet and input/output connections.

10

Include all pin numbers.



13. (continued)



MARKS

DO NOT
WRITE IN
THIS
MARGIN

--



* X723750113 *