Answers to Chapter 5 questions
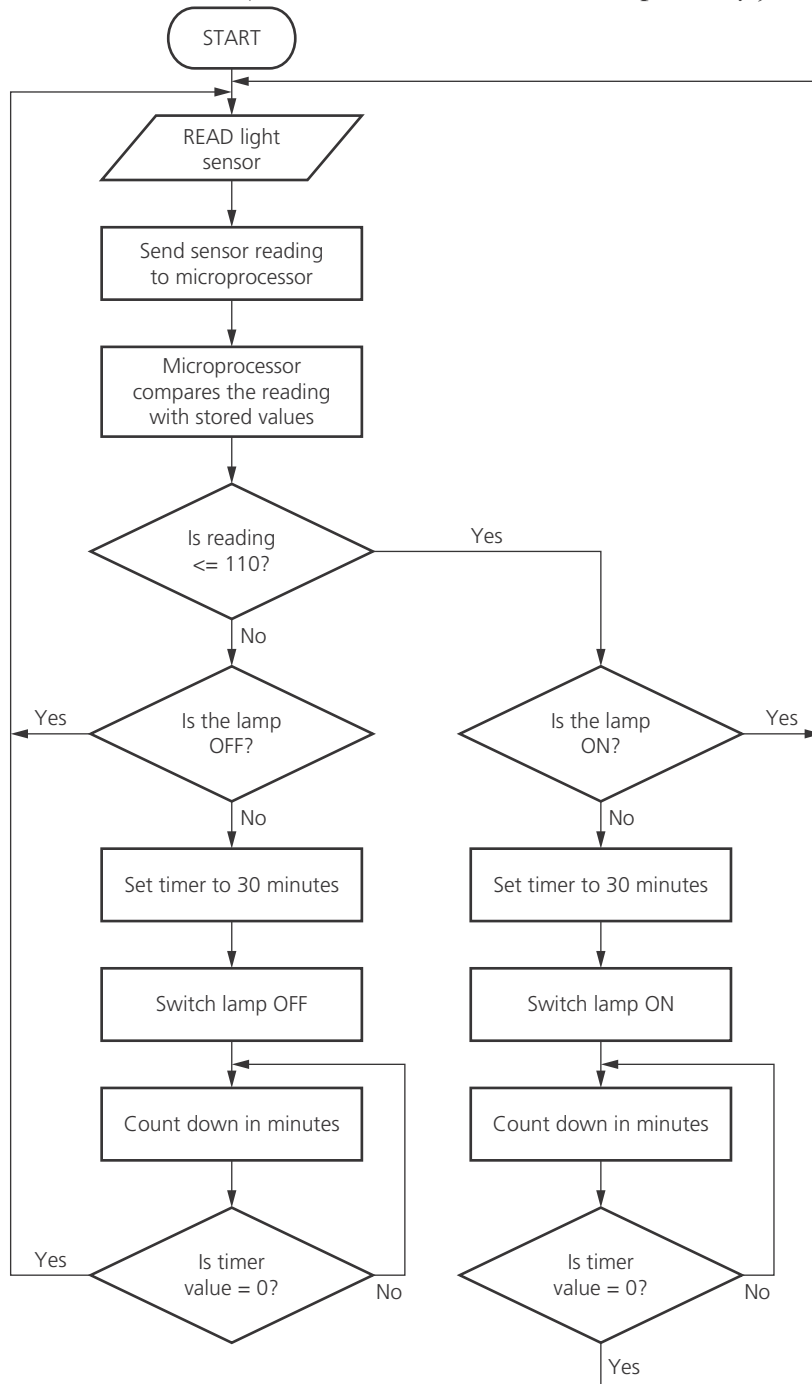
Activity 5.1

a 9 0 0 3 4 0 would have the following barcode sequence:

left-hand side:	LLLDLDD/LLLDDLD/LLLDDLD
right-hand side:	DLLLLDL/DLDDDLL/DDDLLDL

1 2 5 7 6 6 4 8

left-hand side:	LLDDLLD/LLDLLDD/LDDLLLD/LDDDLDD
right-hand side:	DLDLLLL/DLDLLLL/DLDDDLL/DLLDLLL

0 5 8 8 9 0 2 9 1 8

left-hand side:	LLLDDLD/LDDLLLD/LDDLDDD/LDDLDDD/LLLDLDD
right-hand side:	DDDLLDL/DDLDDLL/DDDLDLL/DDLLDDL/DLLDLLL

Activity 5.6

Possible flowchart (other solutions exist which are probably just as correct!!):

Activity 5.10

a   176 400 bytes needed per second of recording
   So a 4-minute recording needs: 240 x 176 400 bytes, i.e. 42 336 000 bytes
   Dividing by 1 048 570 gives answer in MB, i.e. 40.37 MB
b   800/40.37 = 19.82
   So 19 full tracks could be stored on this CD.