

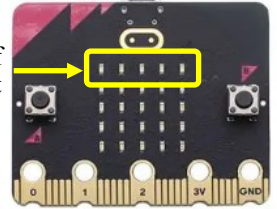
# 1, PREDICT

Look at the code below

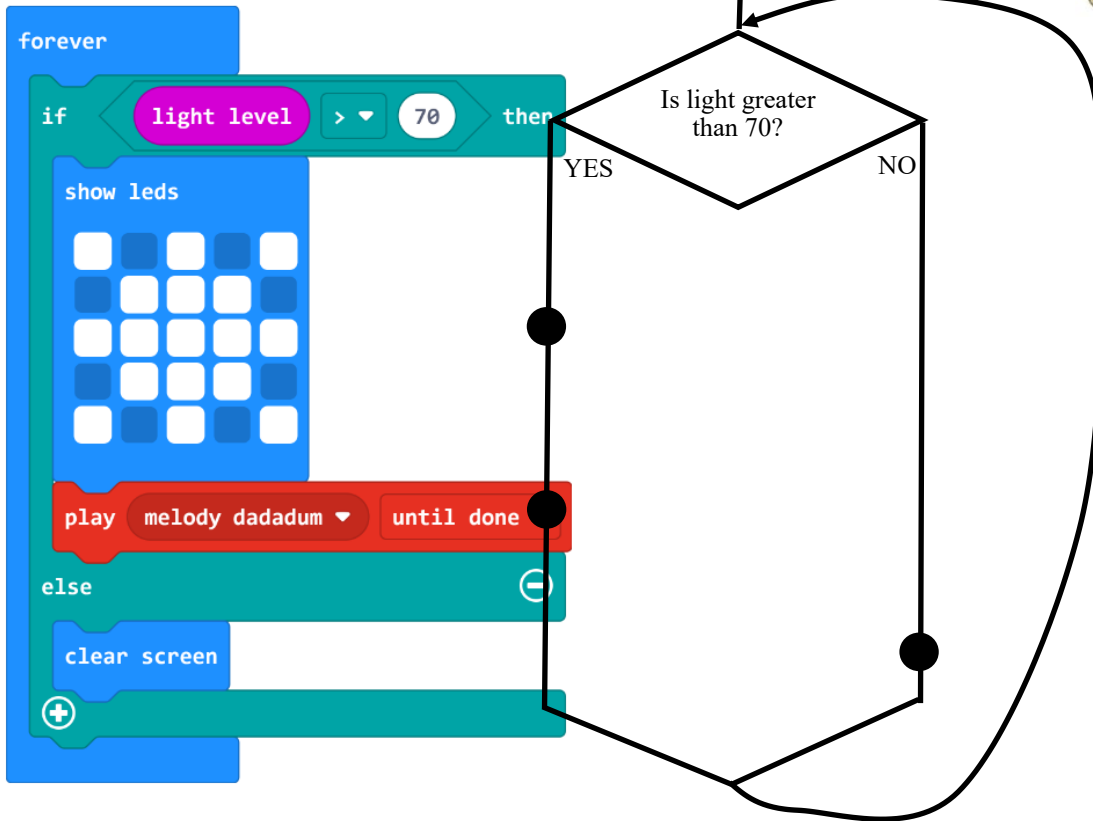
Working with your partner

Predict what you think it will do

Micro:bit V2 uses the top row of LED lights to detect light



**PRIMM**



I predict that when the code is run it will

(Do not write out code in your prediction)

# 2, RUN

Now run the code on your Micro:bit. Did you predict what would happen? Cover the light sensor with your hand to reduce the light.

# 3, INVESTIGATE (You can run or read the code to help you answer the questions)

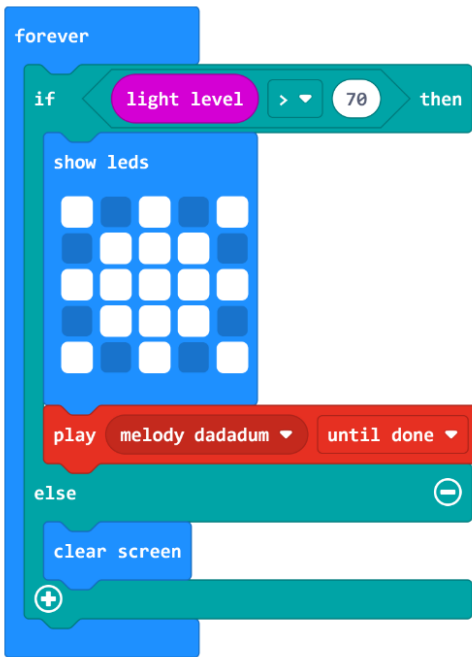
A, If the light is greater than 70 what will happen?

B, If the light is 70 or less than 70 what will happen?

C, How many times will it check the amount of light? ( **once**, **10 times**, **many times** )  
*circle the correct amount*

**NOW MARK YOUR WORK ON THIS PAGE**

#### 4, MODIFY (Make small changes to the code and write down what they are)



A. Change the sound to play before the LED sun lights up on the screen  
 — Draw an arrow to show where you put this.

B. Add an LED screen effect to show ZZZs when the light is the same as or less than 70. Draw an arrow to show where you put this.

#### 5. PLAN AND MAKE

Choose one or more of these ideas to plan and make using if else or multiple if blocks.

*See multiple if support card for ways to make multiple if blocks.*

A. Create a yes or no answer pad triggered by buttons for a child who is shy answering in large classes. Make sure it can be cleared when they are not answering.

B. Create an I need help pad for a child so they do not need to stick their hands up in class. Make sure it can be cleared when help is not needed.

D. Design and make your own programme that uses more than one condition checked inside a loop.

My idea
My algorithm

For assessment by the teacher

Not used a condition in a loop	Adapted an idea suggested that uses conditions in a loop	Designed and created a new idea that uses conditions in a loop
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