

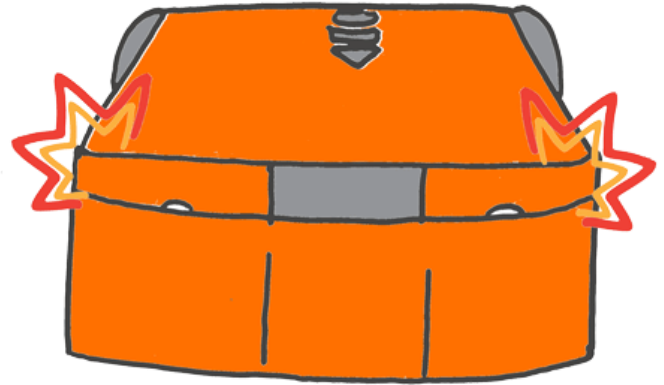
# Let's use the lights

How can we program Edison to turn on and off the LED lights forever?  
By using a loop!

## What is a loop?

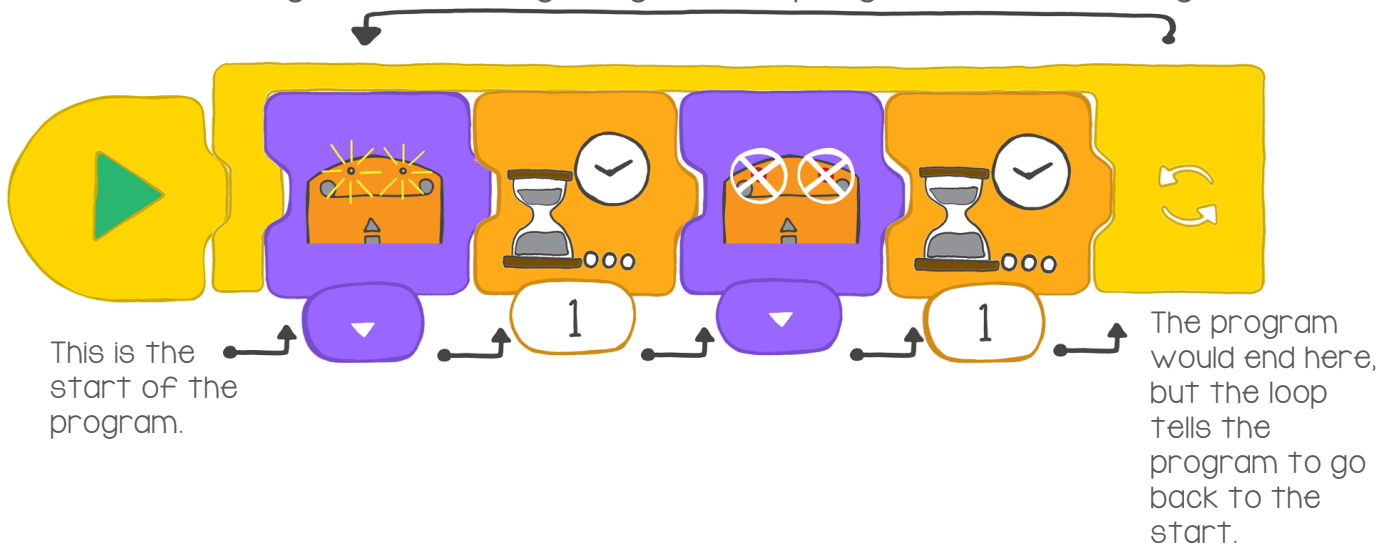
A loop is a special block in EdBlocks. We can put a loop around other blocks.

The loop will make any blocks inside the loop repeat.



Look at the program below.

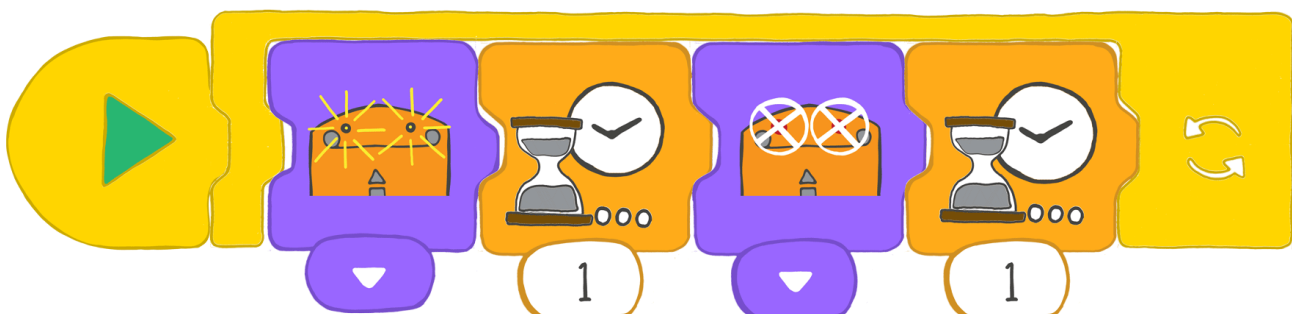
This program tells Edison to turn the LED lights on, wait for one second, then turn off the LED lights and wait for one second. The loop then tells Edison to go back to beginning of the program and start again.



## What to do with EdBlocks

Using the EdBlocks app, arrange the blocks into the program below.

Make sure to wrap the main program inside the loop block.



### What to do with Edison

Download the program from the last page to Edison. Run the program to see what happens.

### Find the answer

1. Why do we use the loop block?

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2. Look at the lights program again. Imagine the program doesn't have a loop block. What would the program do if there was no loop?

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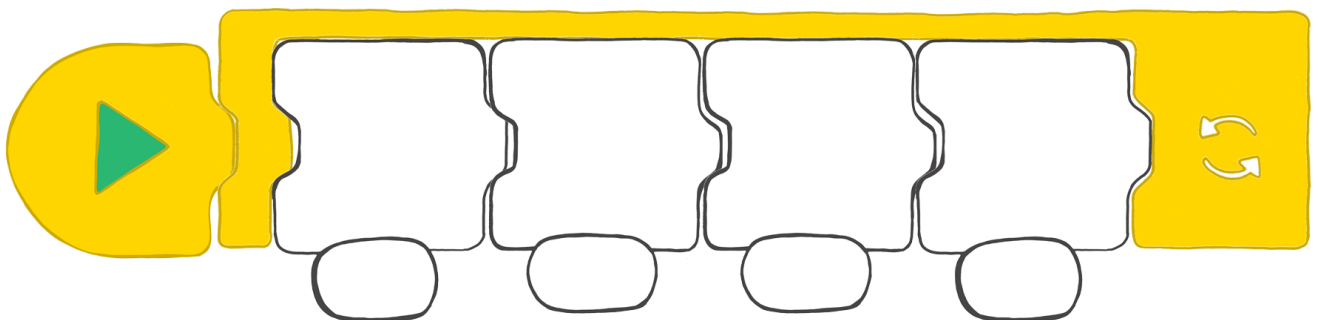
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3. In the EdBlocks app, make your own program using the loop block. Write down your program here. (Hint: try using drive blocks.)



4. What does your loop program do? Describe what your program does here.

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