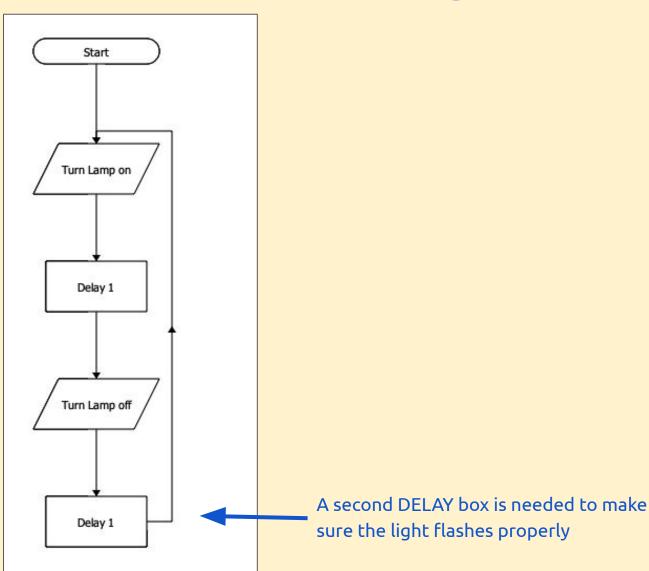
Challenge 1:

Design the algorithm so that it keeps going forever

This will need to use repetition

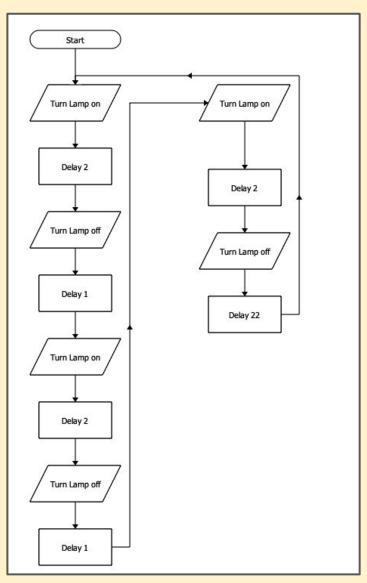


Challenge 2:

Create a more complex flash pattern - Happisburgh uses 3 flashes every 30 seconds

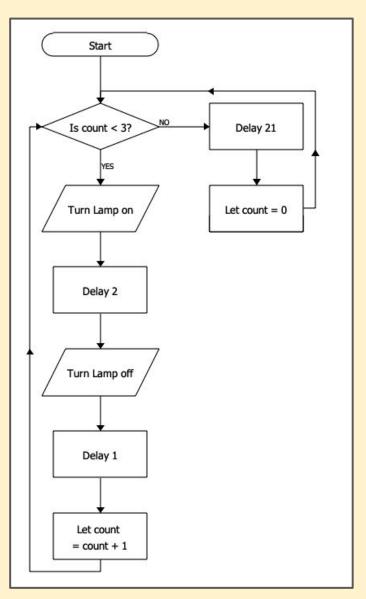
Use **2 second flashes** with a **1 second delay** between each flash and a longer delay at the end

Time your pattern to check it's 30 seconds...



Challenge 4 will give you a better way to do this using SUBROUTINES

There's also an alternative solution using a VARIABLE



An alternative way to solve this using a **variable** to count the number of times the lamp is flashed

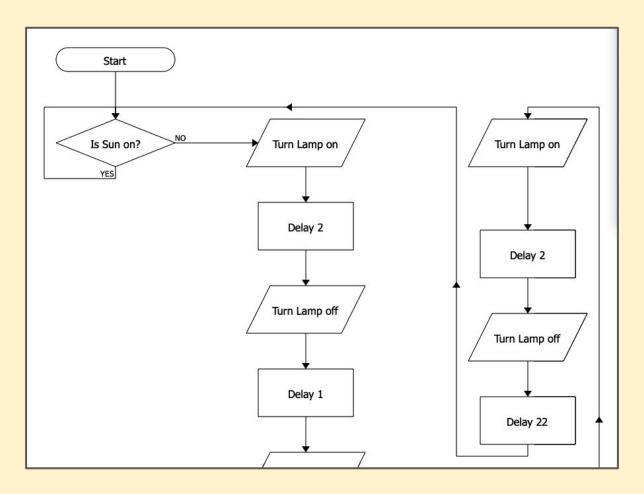
It's not much shorter, but it is a lot more efficient

Challenge 3:

Only turn the light on at night (when the sun isn't out)

This needs to use **selection**

The selection block needs to check whether the sun is on (out). You can click on the sun to change whether it's on or off



Click the sun to make it light up. Make sure you have the YES and NO right here!

Make sure that the final DELAY goes back to BEFORE the Selection symbol (diamond)

Challenge 4:

Change the flash pattern to two long flashes followed by three short flashes and then a 15 second gap

A long flash is 3 seconds, a short flash is 1 second

Using **subroutines** will help here

