# Write a test script that verifies if traffic light works correctly.

Let‘s say, that you have to test a traffic light that is already placed. So you set up a camera to take pictures every 5 s and leave if for all day long. Then using a images you gather data (data.txt) of lamps that are active in the image (sequence of digits in separate lines). Data is formed as follows:

|  |
| --- |
| red |
| 1, 0, 0, 0 means red. |

|  |
| --- |
| C:\Users\inmars.didaitis\AppData\Local\Microsoft\Windows\INetCache\Content.Word\yellow.jpg |
| 0, 1, 0, 0 means yellow. |

|  |
| --- |
| green |
| 0, 0, 1, 0 means green. |

|  |
| --- |
| green_left |
| 0, 0, 0, 1 means green left arrow. |

|  |
| --- |
| none |
| 0, 0, 0, 0 means that no light is on. |

Requirement for the traffic light is that it can only switch in two different sequences:

Red -> Yellow -> Green -> Yellow -> Red (and repeat)

Red -> Yellow -> Green left -> Green -> Yellow -> Red (and repeat)

I. e. Sometimes traffic light is allowed to skip left turn.

The data file looks something like this:

|  |
| --- |
| 0,0,1,0  0,0,0,0  0,0,1,0  0,0,1,0  0,1,0,0  0,1,0,0  0,1,0,0 |
| This was a switch from green to yellow (with blinking). This is a valid step. |

|  |
| --- |
| 0,0,1,0  1,0,0,0  1,0,0,0 |
| This was a switch from green to red. Invalid step - the traffic light is working wrong. |

Your task is to create python sctipt, that reads data from file, and analyses it to check if the traffic light is working correctly. In other words, no invalid steps (example above) were done.

Keep in mind that both (and only) green lights blink before turning off, there are no gaps between switches. Camera might take a picture with no lights on.