

1. Use the "wait for 1s" block to achieve a red light for 30s, a yellow light for 5s, a green light for 15s, and a simulated traffic light.
2. Based on the first question, make the red light is on for 30s, the yellow light flashes when the countdown is 5s. Then, the green light is on for 15s, and the green light flashes when the countdown is 5s, and the blinking speed is getting faster and faster.
3. Realize the effect of white breathing light.
4. Make the RGB light realize the effect of the breathing light while randomly changing the color, and realize the alternating color breathing light.

Tip: You can use the [Operation] class to get random number blocks.

Reference answer:

For the code of this course, please refer to **RGB_Expand_1.sb3** , **RGB_Expand_2.sb3** , **RGB_Expand_3.sb3** , **RGB_Expand_4.sb3** .