

# April - Checkpoint



LED Output

# LED Output - Checkpoint

1. Using the Color Sensor on Demand feature, change the LED colors on the RVR to the color red when placed on the red swatch.
2. When the RVR does not see the red swatch, make the headlights blink green and blue exactly five times.
3. (Optional) Make the RVR cycle between different colors it has seen
  - a. Example:
    - i. RVR senses red - LEDs remain red
    - ii. RVR senses green after sensing red - LEDs cycle between red and green (and so on)
4. Retain all functionality from previous missions.

Video of working results: <https://youtu.be/emDQjKS6aAc>

# IT Olympics Creativity

## REMEMBER!

- Additional and creative code can win you extra points!
- This code does not need to run during the race
- HAVE FUN!

# Key Mappings

[a]	97	[n]	110
[b]	98	[o]	111
[c]	99	[p]	112
[d]	100	[q]	113
[e]	101	[r]	114
[f]	102	[s]	115
[g]	103	[t]	116
[h]	104	[u]	117
[i]	105	[v]	118
[j]	106	[w]	119
[k]	107	[x]	120
[l]	108	[y]	121
[m]	109	[z]	122

# Remember

If you start falling behind!

- Email IT-Adventures and we will communicate with you to try to get you caught back up!