

Red-Green-Blue OzoBlockly Intersection Tally Challenge

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Figure 1 shows one of two Ozomaps that will be provided for you to complete this OzoBlockly challenge. Your teacher will provide full-page Ozomaps suitable for use with Evo. There are twenty intersections that have been circled. Some intersections are red, some green, and some blue. The second Ozomap is similar to the one shown in Figure 1—but with intersections having a different combination of red-blue-green colors. Your program should work properly on both maps, and any other similar map.

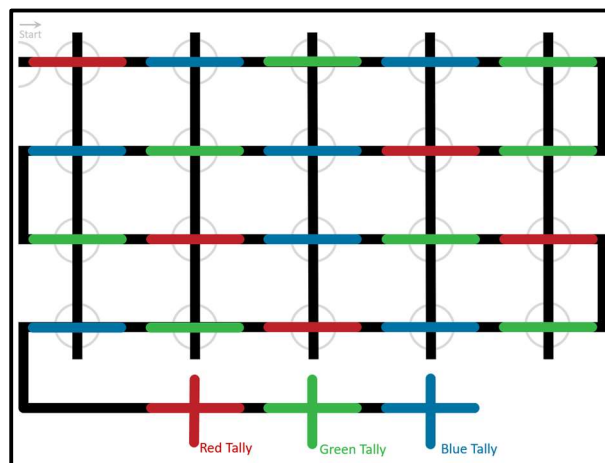


Figure 1

Evo is initially placed in the upper left corner in the half-circle facing the direction shown by the arrow. When your program in Evo starts, Evo moves successively from one intersection to the next in the group of twenty intersections. At each intersection, Evo must change the *top light* to the color of the intersection **and** *speak* the color of the intersection. Following the 20th intersection, Evo moves to the “Tally” intersections. At each of these three intersections, Evo changes the color of the top light to the color of the intersection. He also speaks the number of circled intersections of that color followed by speaking the color. For example, based upon the Ozomap of Figure 1, Evo would speak “5 Red” upon reaching the “Red Tally” intersection. A short video that accompanies this lesson clarifies how Evo is to behave as he traverses the Ozomap of Figure 1. Good luck and have fun!