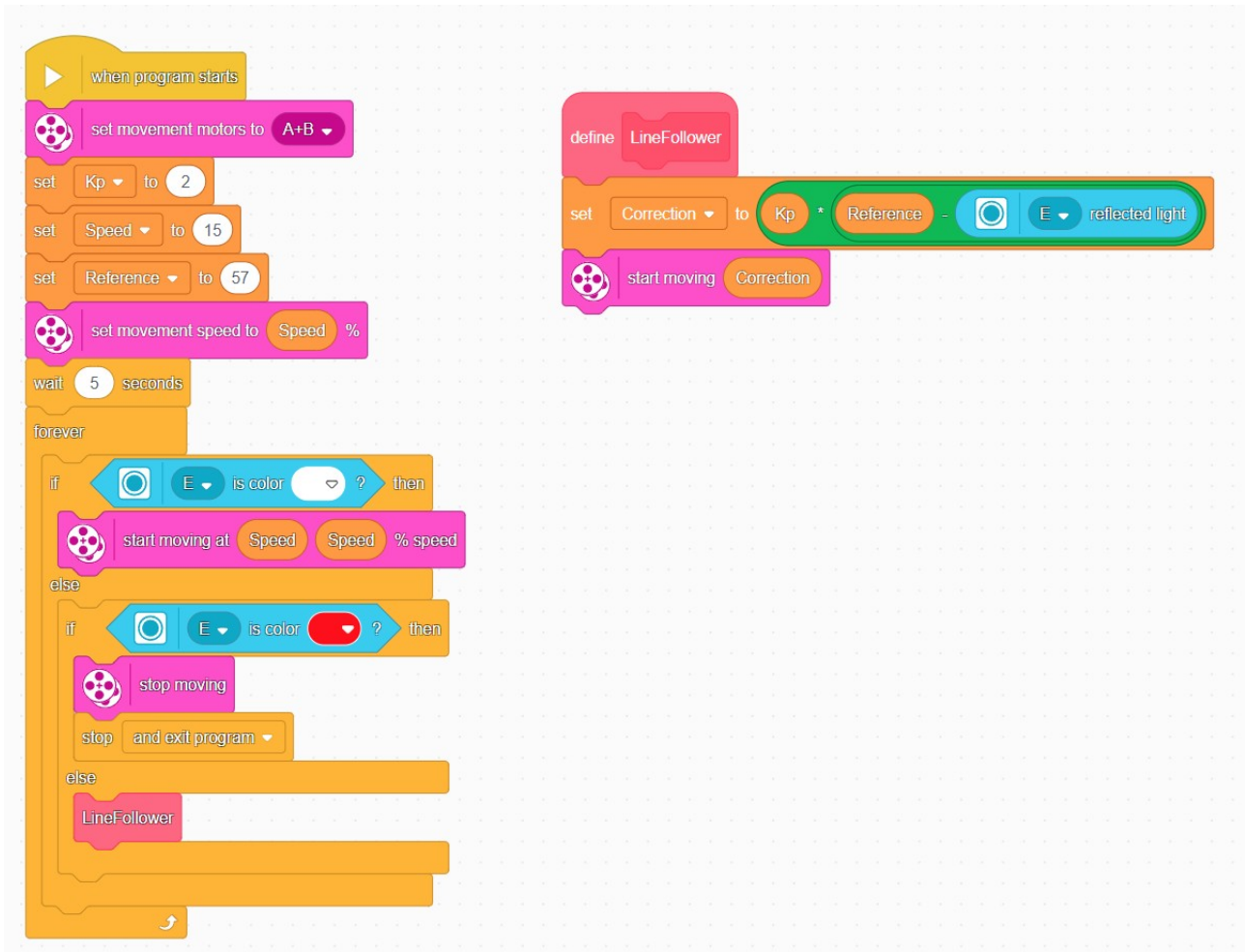


Program used in the tests



where $Reference$ is defined as $(I_{Black} + I_{white})/2$.

I_{Black} :Intensity of light reflected by the black surface.

I_{white} :Intensity of light reflected by the white surface.

Kp depends on the robot—higher values make the robot stick more closely to the line.

A low speed (15) is used for didactic purposes; however, Kp values can be tested at different speeds, starting with $Kp = 1$.