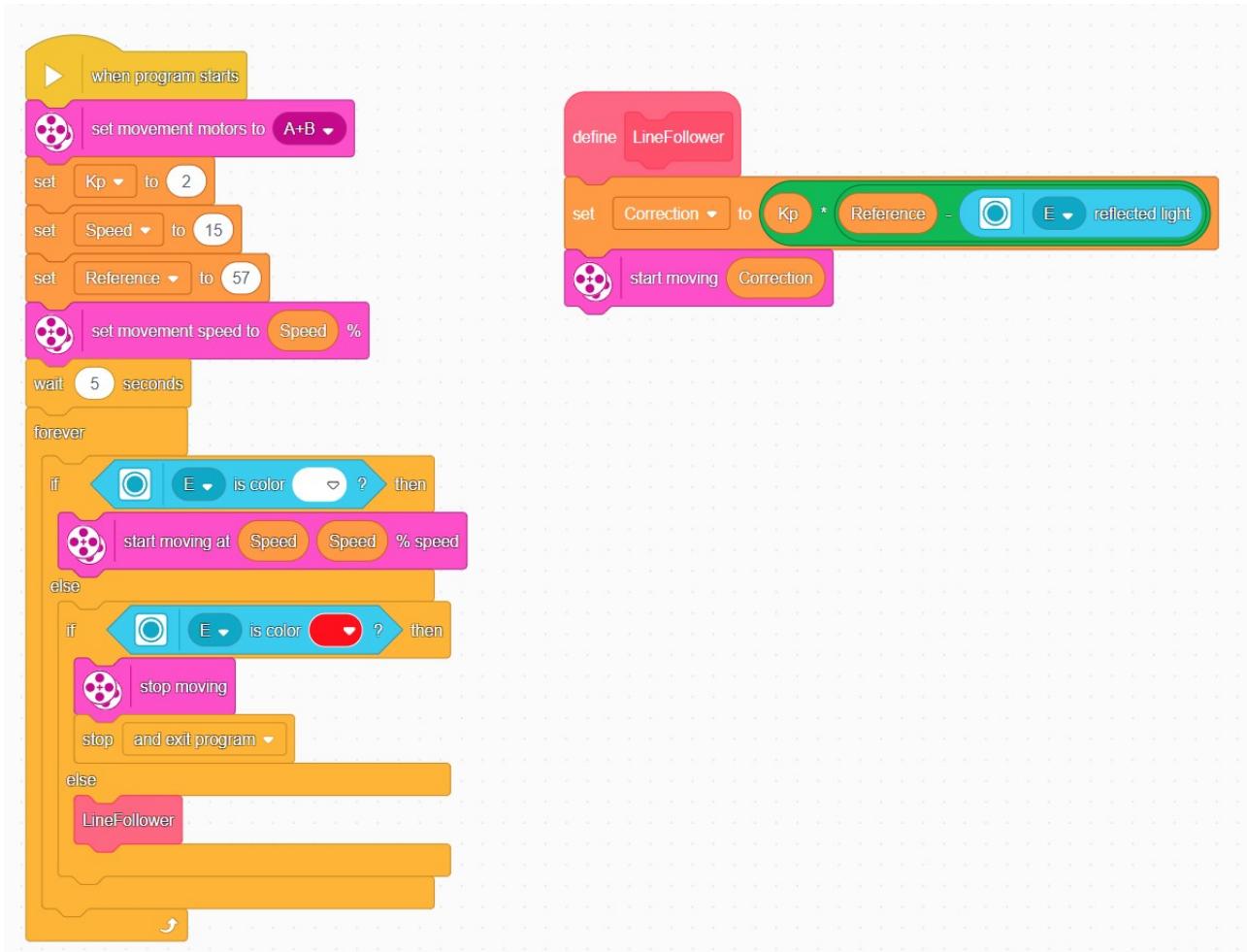


Program used in the tests



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

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.