**1. Describe your core routine**

Our core routine is repeatly executed according to a specific cycle. In a cycle, our core routine do these jobs sequencely.

First, check whether each IR sensor detect color as white or black. In these part, these executions are executed sequencely :

* 1. Charges a capacitor.
* 2. Wait for fully charged.
* 3. 10000us times are required to check.  
  For every 1 use, we check wheather each IR sensor value is 0 or 1. And with time counter, we classify whether sensor is detecting white or black.

Second, with information about classified color value, our device choose how to act.  
In basic logic, the speed of the motor varies according to the degree of bias of black.  
For example, if black is biased to left, we should increase left motor speed, and decrease right motor speed.  
If black is biased to right, we should increase right motor speed, and decrease left motor speed.  
By this logic, we can make our device line tracing.

**2. Describe your noise handling algorithm**

**3. peer assessment**

Name: 이재욱 Contribution: 100%  
Name: 정승연 Contribution: 100%

**Thank you for reading.**