```
/* 5249Z-Ignite
/* Version: 1.2.0
/* File: PID.h
/* Description: header file for PID class
                                                             */
3
                                                              */
 4
5
   /*----*/
 6
7
   #include "RobotConfig.h"
8
9 class PID {
10 private:
11
          double kP, kI, kD;
12
          double integral = 0;
13
          double prevError;
14
          double samplePeriod;
15
      public:
          PID(double, double, double, double);
16
17
          double setPoint;
18
          double calculatePID(double);
19
          void setGains(double, double, double);
20
          void reset();
21 };
```