

```
1 #include "pid.h"
2
3 //constructor sets constants
4
5 PID::PID(PIDConst constants) {
6     this->kp = constants.kp;
7     this->ki = constants.ki;
8     this->kd = constants.kd;
9 }
10
11 //steps PI algo with error passed in (no D)
12 double PID::step(double err) {
13     totalerr+=err;
14     double val = kp*err + totalerr*ki;
15     return val;
16 }
```