```
* This is the .h file for the Si7051 sensor
    * This sensor is used in the globe thermometer
3
    #ifndef CLOSEDCUBE SI7051 h
5
6
7
   #define _CLOSEDCUBE_SI7051_h
8 #define MAX READ COUNT 5
9 #define ADDR MRT 0x40
#define DEFAULT AVERAGE 128
#include <Arduino.h>
12
class ClosedCube_Si7051 {
14 public:
15
        ClosedCube Si7051();
16
17
        float readT(); // short-cut for readTemperature
18
        float run_mrt(void);
19
        bool start mrt(void);
20
        float get MRT ave(void);
21
22 private:
23
       uint8 t address;
24
        void begin(uint8_t address);
25
        float readTemperature();
        float T_buf[MAX_READ_COUNT];
float T_ave;
26
27
28
        int read_count;
29 };
30
31
   #endif
32
33
```