```
#include <stdio.h>
int irLeft, irRight;
int humPin = 6;
int ledPin = 8;
float humThresh = 25.0;
void setup() {
  low(26);
  low(27);
  drive_setRampStep(12);
}
void loop() {
  dht22_read(humPin);
  float humidity = dht22_getHumidity();
  humidity = humidity / 10.0;
  float temp = dht22_getTemp(CELSIUS) / 10.0;
  if(temp > humThresh) {
        high(ledPin);
      } else {
        low(ledPin);
      }
  freqout(11, 1, 38000);
  irLeft = input(10);
  freqout(1, 1, 38000);
  irRight = input(2);
  if(irRight == 1 && irLeft == 1) {
        drive_rampStep(128, 128);
      } else if(irLeft == 0 && irRight == 0)
        drive\_rampStep(-128, -128);
      else if(irRight == 0)
        drive_rampStep(-128, 128);
      else if(irLeft == 0)
        drive\_rampStep(128, -128);
}
void myPrintf(float fVal)
    char result[100];
    int dVal, dec, i;
    fVal += 0.005;
    dVal = fVal;
    dec = (int)(fVal * 100) % 100;
    memset(result, 0, 100);
    result[0] = (dec % 10) + '0';
    result[1] = (dec / 10) + '0';
    result[2] = '.';
    i = 3;
    while (dVal > ∅)
        result[i] = (dVal % 10) + '0';
        dVal /= 10;
        i++;
    }
```

```
for (i=strlen(result)-1; i>=0; i--) {
        putc(result[i], stdout);
    }
}
int input(int pin) {
    // TODO: complete method
}
int dht22_getHumidity() {
    // TODO: complete method
}
char dht22_read(int dht_pin) {
    // TODO: complete method
}
void low(int pin) {
    // TODO: complete method
}
int dht22_getTemp(char temp_units) {
    // TODO: complete method
}
void drive_setRampStep(int stepsize) {
    // TODO: complete method
}
void freqout(int pin, int msTime, int frequency) {
    // TODO: complete method
}
void drive_rampStep(int left, int right) {
    // TODO: complete method
}
void high(int pin) {
    // TODO: complete method
}
```