```
#include <kipr/wombat.h>
int threshold = (2800 + 1060)/2;
int left = 200;
int right = 200;
//start arm at 1575
int main()
{
  //wait_for_light(0);
  shut_down_in(119);
  printf("Hello World\n");
  enable_servos();
  create_connect();
  //set arm down
  set_servo_position(0,1445);
  msleep(1000);
  // close claw
  set_servo_position(3,300);
  msleep(1000);
  //drive to cube pt. 1
       // go to the the balck tape line to get centered
  while ( (get_create_lcliff_amt() >threshold) || (get_create_rcliff_amt() >threshold) )
  {
     if (get_create_lcliff_amt() < threshold )</pre>
     left= 0;
     }
     if (get_create_rcliff_amt() < threshold )</pre>
        right = 0;
     create_drive_direct(left, right);
  }
  printf("lined Up");
```

```
create_stop();
msleep(000);
//drive forward
create_drive_direct(300,300);
msleep(800);
create_stop();
msleep(1000);
//turn slightly
create_drive_direct(300,0);
msleep(350);
create_stop();
msleep(1000);
//set to first cube height
set_servo_position(0,950);
msleep(1000);
set_servo_position(3,900);
msleep(2000);
// drive to cube pt. 2
while (get_create_rbump() ==0 && get_create_lbump() ==0)
  create_drive_direct(200,200);
}
create_stop();
msleep(1);
//set to first cube height
set_servo_position(3,900);
msleep(2000);
create_stop();
msleep(1000);
//grab cube
set_servo_position(3,100);
msleep(1);
```

```
create_stop();
msleep(1000);
set_servo_position(0,0);
msleep(1000);
//backup
create_drive_direct(-200,-200);
msleep(1500);
create_stop();
msleep(1000);
//turn
create_drive_direct(500,0);
msleep(1400);
create_stop();
msleep(1000);
//lower arm
set_servo_position(0,1330);
msleep(1000);
//release cube
set_servo_position(3,830);
msleep(1000);
ao();
msleep(1000);
//2nd cube raise to height
set_servo_position(0,249);
msleep(1000);
//open
set_servo_position(3,1650);
msleep(1000);
ao();
msleep(100);
//turn
create_drive_direct(0,500);
```

```
msleep(1450);
create_drive_direct(300,300);
msleep(1000);
//drive to 2nd cube until bumped
while (get_create_rbump() ==0 && get_create_lbump() ==0)
{
  create_drive_direct(200,200);
}
create_stop();
msleep(1);
// grab 2nd cube
set_servo_position(3,100);
msleep(1000);
//backup
create_drive_direct(-200,-200);
msleep(1500);
//turn
create_drive_direct(300,0);
msleep(2700);
create_drive_direct(300,300);
msleep(500);
//lower arm
set_servo_position(0,1330);
msleep(1000);
//release cube
set_servo_position(3,830);
msleep(1000);
ao();
msleep(1000);
create_disconnect();
disable_servos();
return 0;
```

}