```
#include <kipr/botball.h>
#include <Drive.h>
//black=3515
//white=225
int gray = 2000;
int red = 1;
int yellow = 0;
int main()
  printf("Hello World\n");
  //turn right
  cmpc(0);
  cmpc(3);
  while(gmpc(0)>-1955)
  {
     mav(0,-500);
  }
  ao();
  msleep(500);
  //drive straight backwards
  drive_straight_neg(-4500,-4500);
  //stop
  ao();
  msleep(500);
  //turn left
  cmpc(r);
  cmpc(I);
  while(gmpc(r) < 1075 && gmpc(l) > -1575)
     mav(r,200);
    mav(I,-200);
  }
  //drive straight backwards
  drive_straight_neg(-3380,-3380);
```

```
//turn left
cmpc(r);
cmpc(I);
while(gmpc(r) < 1075 && gmpc(l) > -1775)
{
  mav(r,200);
  mav(I,-200);
}
//stop
ao();
msleep(3000);
//follow blackline
//clear the position counter
clear_motor_position_counter(0);
while(get_motor_position_counter(0)>-5300)
{
  if(analog(0)<gray)</pre>
     mav(3,-200);
     mav(0,-400);
  }
  else
     mav(3,-400);
     mav(0,-200);
  }
}
ao();
msleep(500);
//drive over hump
drive(-700,-700,1000);
//follow blackline
clear_motor_position_counter(3);//clear the position counter
clear_motor_position_counter(0);
while(get_motor_position_counter(0)>-6300 && get_motor_position_counter(3)>-6300)
{
  if(analog(0)<gray)</pre>
```

```
mav(0,-400);
     mav(3,-200);
  }
  else
  {
     mav(0,-200);
     mav(3,-400);
  }
}
//turn right
neg_right_ninety();
//camera code
camera_open();
cmpc(0);
while (1)
{
  camera_update();
  if (get_object_count(0) > 0 && get_object_count(1))
     printf("I see yellow %d\n", get_object_count(0));
     printf("I see red %d\n", get_object_count(1));
     break;
  }
  else
     mav(0,-300);
     mav(3,-300);
  }
}
ao();
msleep(500);
camera_close();
```

if (gmpc(0) < -1200)//this means your at the first building and will need to drive straight and then turn to put the stuff in

```
{
  //drive straight
  drive_straight_neg(-3500,-3500);
  //turn left backwards
  cmpc(r);
  cmpc(I);
  while(gmpc(r) < 1075 && gmpc(l) > -1575)
     mav(r,200);
     mav(I,-200);
  }
  //drive straight
  drive_straight_neg(-2500,-2500);
}
else//you are at the second building and need to go turn back and push the stuff in
{
  //turn left backwards
  cmpc(r);
  cmpc(I);
  while(gmpc(r) < 1075 && gmpc(l) > -1675)
     mav(r,200);
     mav(I,-200);
  }
  //drive straight
  drive\_straight\_neg(-3500,-3500);
}
return 0;
```

}