```
#include "main.h"
void autonZero() {
    //Left
    DRIVEBASE_POWER = 127;
    setSyncMove(FORWARD, 400, false);
    waitForTasks();
    DRIVEBASE\_POWER = 63;
    setSyncMove(RIGHT, QUARTER, false);
    waitForTasks();
    openClaw();
    waitForTasks();
    DRIVEBASE_POWER = 127;
    setSyncMove(FORWARD, 430, false);
    waitForTasks();
    closeClaw(300);
    setSyncLift(HIGH_HEIGHT - 110);
    waitForTasks();
    DRIVEBASE\_POWER = 63;
    setSyncMove(LEFT, QUARTER, false);
    waitForTasks();
    DRIVEBASE\_POWER = 63;
    setSyncMove(FORWARD, 475, false);
    waitForTasks();
    openClaw();
    setSyncLift(HIGH_HEIGHT + 40);
void autonOne() {
    autonZero();
    waitForTasks();
    DRIVEBASE\_POWER = 127;
    setSyncMove(BACKWARD, 300, false);
    waitForTasks();
    DRIVEBASE\_POWER = 63;
    setSyncMove(RIGHT, HALF + 60, false);
    waitForTasks();
    DRIVEBASE_POWER = 127;
    setSyncMove(BACKWARD, 75, false);
    setSyncLift(DOWN_HEIGHT);
    waitForTasks();
    setSyncMove (FORWARD, 350, false);
    waitForTasks();
    closeClaw(500);
    setSyncMove(BACKWARD, 100, false);
    waitForTasks();
    setSyncLift(HIGH_HEIGHT);
    waitForTasks();
    DRIVEBASE\_POWER = 63;
    setSyncMove(LEFT, HALF, false);
    waitForTasks();
    DRIVEBASE_POWER = 127;
    setSyncMove(FORWARD, 400, false);
    waitForTasks();
    setSyncMove(FORWARD, 75, false);
    openClaw();
    waitForTasks();
```

void autonTwo() {
 //Right square

waitForTasks();

waitForTasks();

setSyncMove(FORWARD, 400, false);

setSyncMove(LEFT, QUARTER, false);

```
openClaw();
    waitForTasks();
    setSyncMove(FORWARD, 475, false);
    waitForTasks();
    closeClaw(750);
    setSyncLift(HIGH_HEIGHT);
    waitForTasks();
    setSyncMove(RIGHT, QUARTER, false);
    waitForTasks();
    setSyncMove(FORWARD, 400, false);
    setSyncLift(HIGH_HEIGHT);
    waitForTasks();
    openClaw();
    setSyncLift(HIGH_HEIGHT - 20);
void autonThree() {
    //Right Square with Stars
    autonTwo();
    waitForTasks();
    setSyncMove(BACKWARD, 300, false);
    waitForTasks();
    setSyncMove(LEFT, HALF + 50, false);
    waitForTasks();
    setSyncMove(BACKWARD, 75, false);
    setSyncLift(DOWN_HEIGHT);
    waitForTasks();
    setSyncMove(FORWARD, 350, false);
    waitForTasks();
    closeClaw(750);
    setSyncMove(BACKWARD, 100, false);
    waitForTasks();
    setSyncLift(HIGH_HEIGHT);
    waitForTasks();
    setSyncMove(RIGHT, HALF + 100, false);
    waitForTasks();
    setSyncMove(FORWARD, 350, false);
    waitForTasks();
    openClaw();
    waitForTasks();
void autonFour() {
//Left Anti-Middle
    setSyncMove(FORWARD, 100, false);
    waitForTasks();
    openClaw();
    waitForTasks();
    setSyncLift(HIGH_HEIGHT + 35);
    waitForTasks();
    setSyncMove(FORWARD, 750, false);
    waitForTasks();
    setSyncMove(RIGHT, THREE_QUARTER + 100, false);
    waitForTasks();
    setSyncLift(DOWN_HEIGHT);
    waitForTasks();
    setSyncMove(FORWARD, 750, false);
    waitForTasks();
    closeClaw(750);
    delay(750);
    waitForTasks();
    setSyncMove(BACKWARD, 250, false);
    waitForTasks();
    setSyncLift(HIGH_HEIGHT);
    waitForTasks();
```

```
setSyncMove(LEFT, HALF + 100, false);
    waitForTasks();
    setSyncMove(FORWARD, 700, false);
    waitForTasks();
    openClaw();
    waitForTasks();
void autonFive() {
    //Left Anti-Middle
        setSyncMove(FORWARD, 100, false);
        waitForTasks();
        openClaw();
        waitForTasks();
        setSyncLift(HIGH_HEIGHT + 35);
        waitForTasks();
        setSyncMove(FORWARD, 750, false);
        waitForTasks();
void autonSix() {
void autonSeven() {
void autonEight() {
void autonNine(){
void autonTen(){
void autonEleven(){
void autonTwelve() {
void autonThirteen(){
    setSyncMove(FORWARD, 100, false);
    waitForTasks();
    openClaw();
    waitForTasks();
    taskDelay(200);
    setSyncLift(650);
    waitForTasks();
    setSyncMove(BACKWARD, 100, false);
    waitForTasks();
    taskDelay(1500);
    closeClaw(750);
    taskDelay(1500);
    setSyncMove(FORWARD, 950, false);
    waitForTasks();
    openClaw(); //Drop 3 star and cube combo
```

```
waitForTasks();
setSyncMove(BACKWARD, 950, false);
waitForTasks();
taskDelay(1000);
closeClaw(750);
taskDelay(1000);
setSyncMove(FORWARD, 950, false);
waitForTasks();
openClaw();
waitForTasks(); //Drop the one cube preload
setSyncMove(BACKWARD, 475, false);
waitForTasks();
setSyncMove(RIGHT, QUARTER, false);
waitForTasks();
setSyncLift(25);
waitForTasks();
setSyncMove(FORWARD, 350, false);
waitForTasks();
closeClaw(400);
setSyncLift(625);
waitForTasks();
setSyncMove(FORWARD, 100, false);
waitForTasks();
taskDelay(400);
setSyncMove(LEFT, QUARTER, false);
waitForTasks();
setSyncMove(FORWARD, 475, false);
waitForTasks();
openClaw(); //Drop field cube
waitForTasks();
setSyncMove(BACKWARD, 275, false);
waitForTasks();
taskDelay(400);
setSyncMove(RIGHT, HALF + 50, false);
waitForTasks();
setSyncMove(BACKWARD, 100, false);
waitForTasks();
setSyncLift (25);
waitForTasks();
DRIVEBASE\_POWER = 127;
setSyncMove(FORWARD, 350, false);
waitForTasks();
closeClaw(750);
setSyncMove(BACKWARD, 275, false);
waitForTasks();
setSyncLift(625);
waitForTasks();
DRIVEBASE\_POWER = 63;
setSyncMove(LEFT, HALF + 50, false);
waitForTasks();
taskDelay(400);
setSyncMove(FORWARD, 350, false);
waitForTasks();
openClaw(); //Drop field stars
waitForTasks();
setSyncMove(BACKWARD, 400, false);
waitForTasks();
setSyncLift(50);
waitForTasks();
setSyncMove(FORWARD, 400, false);
waitForTasks();
closeClaw(750);
```

```
setSyncMove(BACKWARD, 400, false);
    waitForTasks();
   setSyncLift(625);
   waitForTasks();
    setSyncMove(FORWARD, 500, false);
   waitForTasks();
   openClaw();
   waitForTasks(); //Drop fence stars
void autonFourteen() {
   setSyncMove(FORWARD, 100, false);
   waitForTasks();
   openClaw();
   waitForTasks();
    delay(200);
    setSyncLift(HIGH_HEIGHT);
   waitForTasks();
    setSyncMove(BACKWARD, 100, false);
    waitForTasks();
    delay(1500);
    closeClaw(750);
    delay(1500);
    setSyncMove(FORWARD, 950, false);
   waitForTasks();
    openClaw(); //Drop 3 star and cube combo
   waitForTasks();
    setSyncMove(BACKWARD, 950, false);
    waitForTasks();
   delay(1000);
   closeClaw(750);
   delay(1000);
    setSyncMove(FORWARD, 950, false);
    waitForTasks();
    openClaw();
    waitForTasks(); //Drop the one cube preload
    setSyncMove(BACKWARD, 1100, false);
    waitForTasks();
   gyroReset (gyroOne);
   gyroReset (gyroTwo);
   delay(1500);
    setSyncMove(FORWARD, 450, false);
    waitForTasks();
   delay(400);
    setSyncMove(RIGHT, -90, true);
    waitForTasks();
    setSyncLift(DOWN_HEIGHT);
    waitForTasks();
    setSyncMove(FORWARD, 500, false);
   waitForTasks();
   closeClaw(1000);
   delay(750);
   waitForTasks();
    setSyncLift(HIGH_HEIGHT);
    waitForTasks();
    setSyncMove(FORWARD, 500, false);
    waitForTasks();
    setSyncMove(LEFT, 0, true);
    waitForTasks();
    setSyncLift(HIGH_HEIGHT + 20);
    waitForTasks();
    setSyncMove(FORWARD, 500, false);
    waitForTasks();
    openClaw();
```

```
waitForTasks();
    setSyncMove(BACKWARD, 500, false);
    waitForTasks();
    setSyncMove(RIGHT, -160, true);
    waitForTasks();
    setSyncMove(BACKWARD, 200, false);
    waitForTasks();
    setSyncLift(DOWN_HEIGHT);
    waitForTasks();
    setSyncMove(FORWARD, 600, false);
    waitForTasks();
    closeClaw(1000);
    delay(1000);
    setSyncMove(BACKWARD, 400, false);
    waitForTasks();
    setSyncLift(HIGH_HEIGHT + 30);
    waitForTasks();
    setSyncMove(LEFT, 0, true);
    waitForTasks();
    setSyncLift(DOWN_HEIGHT);
    waitForTasks();
    setSyncLift(HIGH_HEIGHT + 60);
    waitForTasks();
    setSyncMove(FORWARD, 1000, false);
    waitForTasks();
    openClaw();
    waitForTasks();
    setSyncMove(BACKWARD, 200, false);
    waitForTasks();
    setSyncMove(LEFT, 150, true);
    waitForTasks();
    setSyncLift(DOWN_HEIGHT);
    waitForTasks();
    setSyncMove(FORWARD, 350, false);
    waitForTasks();
    closeClaw(1000);
    delay(1000);
    setSyncMove(BACKWARD, 400, false);
    waitForTasks();
    setSyncLift(HIGH_HEIGHT + 20);
    waitForTasks();
    setSyncMove(RIGHT, 0, true);
    waitForTasks();
    setSyncMove(FORWARD, 700, false);
    waitForTasks();
    openClaw();
    waitForTasks();
void autonomous() {
    autonSelection = programSelected(8);
    switch (autonSelection) {
        case 0:
        autonZero();
        break:
        case 1:
        autonOne();
        break;
        case 2:
        autonTwo();
        break;
        case 3:
        autonThree();
```

```
break;
case 4:
autonFour();
break;
case 5:
autonFive();
break;
case 6:
autonSix();
break;
case 7:
autonSeven();
break;
case 8:
autonEight();
break;
case 9:
autonNine();
break;
case 10:
autonTen();
break;
case 11:
autonEleven();
break;
case 12:
autonTwelve();
break;
case 13:
autonThirteen();
break;
case 14:
autonFourteen();
break;
default:
break;
```