```
/**
 * Ofile auto.h
 * Obrief Structures and information pertianing to autonomous that is needed in
 * places other than auto.c
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#pragma once
#include "../include/robot.h"
#define MAX_AUTON 4
typedef struct Auton {
        const char *name;
        const char *sensorName;
        Sensor
                 **sensor;
        void (*execute)();
} Auton:
typedef enum Direction {
        dUp
             = -3,
        dDown = -2,
        dLeft = 1,
        dRight = -1,
        dIn
        dOut,
} Direction;
typedef struct Triple {
        int a;
        int b;
```

int c;

```
} Triple;
/**
* A list of the autonomouses/LCD menus
extern Auton autons[MAX_AUTON + 1];
 * The autonomous, as selected by the LCD menu, to run
extern int selectedAuton;
/**
 * @brief Bring the drive to a specific position
 * @param l the left position
 * @param r the right position
 * Oparam until the maximum amount of time this can take
void driveToPosition(int
                                   r,
                     unsigned long until);
/**
 * @brief Bring the drive to a specific position while attempting to maintain an angle
 * @param l the left position
 * @param r the right position
 * Oparam a the angle to maintain
 * Oparam until the maximum amount of time this can take
 */
void driveToPositionAngle(int
                                        1,
                          int
                                        r,
                                        a,
                          unsigned long until);
void driveToPositionAngleT(void *triple);
/**
 * Use PID to turn to a specific angle
 * Oparam angle the angle to turn to
 * Oparam until the max amount of time this can take
void turnTo(int
                         angle,
            unsigned long until);
```