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// lift.hpp: Header file for utilities relating to the lift
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#pragma once
#include "drive.hpp"

/** Contains everything relating to the drive */
namespace lift {
    /** Class for a side of the drive */
    struct side_t {
        /** Top motor on the the side */
        motor_t topM;
        /** Middle motor on the side */
        motor_t midM;
        /** Bottom motor on the side */
        motor_t lowM;
        /** Sets all motors on the side to the given power */
        void set(int power);
        /** A pointer to the sensor on the side */
        sensors::pot_t* sensor;
    }; // struct side_t

    /** Positions of the lift */
    typedef enum {
        bottom = 5,
        mobile = 60,
        one = 100,
        two = 230,
        three = 450,
    } position;

    extern double inch;
    /** The left side of the lift */

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extern side_t left;
/** The right side of the lift */
extern side_t right;
/** Sensor on the lift */
extern sensors::pot_t* sensor;
/** Default value for the lift to be set at when it is no tin use */
static const int lock = 15;

/** Set the lift at their requested powers */
void set(int lpower, int rpower);

/** Initialize the drive subsystem */
void init(void);

/** p control for the lift */
void to(position pos = bottom, int int_pos = -1, int tolerance = 50);
} // namespace lift

```