```
/**
 * Ofile line.h
 * Obrief Utilities for the three line sensors
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#pragma once
#include "robot.h"
#define gline(index) (line[index].value)
/*
 * The distance between line sensors, the first number is inches and everything
 * else converts -> ticks
 */
static const double lineDistance = 80.25791219881197;
typedef enum {
        LEFT = 0,
        RIGHT = 1,
} Side;
* Obrief Get the current Side. Really simple.
 * Oreturn the current Side, LEFT or RIGHT
Side
            getSide();
/**
 * Obrief Take and delete a mutex. If it can't be taken, don't delete it.
```

```
* Oparam m the Mutex to take (then delete)
 * Oparam blockTime the maximim time to wait before giving up
 * @return Whether or not the mutex was taken
inline bool mutexTakeDelete(Mutex m, unsigned long blockTime) {
        if (!mutexTake(m, blockTime)) {
               return false;
       mutexDelete(m);
       return true;
} // mutexTakeDelete
 * Obrief Calculate the angle of the robot based on the positions of the left
 * and right drive from when each line sensor hit the line
 * Oparam p an array of the 4 positions, in the order: L1, R1, L2, R2
 * Oparam o which line sensor hit the line first
 * Oreturn the angle, in degrees clockwise, of the robot relative to the line.
 * If something goes wrong, it will result 0 (I think. Don't quote me on that)
int getAngleFP(int p[4], Side o);
 * Obrief Get the angle from the upcoming line when it is hit and store it
 * Oparam store a pointer to where the angle is to be stored
 * Oparam m the Mutex to use, if one already exists. If not, use NULL
 * Oparam maxTime the maximum amount of time the get can take
 * Oreturn A Mutex that will be released when the angle is stored
Mutex angleFromUpcomingLine(int
                                         *store,
                                          mutex,
                            unsigned long maxTime);
```