

File: D:\Autonomous\autonomous-includes\el-cheato.h

```
TButtons NEXT_BTN = kRightButton;
TButtons PREV_BTN = kLeftButton;
TButtons CAT_BTN = kEnterButton;

void switchBool(bool *ptr, TButtons btn)
{
    if(btn == NEXT_BTN || btn == PREV_BTN)
    {
        *ptr=!*ptr;
    }
}

void switchInt(int *ptr, TButtons btn)
{
    if(btn == NEXT_BTN){
        *ptr=*ptr+1;
    } else if(btn == PREV_BTN) {
        *ptr=*ptr-1;
    }
}

bool right=true;
bool inner=true;
bool closeGoal=false;
int delay=0;

task runMenu()
{
    void* currVar;
    char currType;

    currVar = &right;
    currType = 'b';

    while(true){
        if(delay<0){
            delay=0;
        } else if(delay>10){
            delay = 10;
        }

        nxtDisplayString(0,"Side: %s",right?"right":"left ");
        nxtDisplayString(1,"Variant: %s",inner?"inner":"outer");
        nxtDisplayString(2,"Close: %s",closeGoal?"yes":"no ");
    }
}
```

File: D:\Autonomous\autonomous-includes\el-cheato.h

```
nxtDisplayString(3,"Delay: %2i",delay);

nxtDisplayTextLine(7,"%s,%s,%s,%i",right?"R":"L",inner?"In":"Out",closeGoal?"Close":"Any",delay);

if(currVar == &right)
{
    nxtDisplayStringAt(94,63,"*");
    nxtDisplayStringAt(94,55," ");
    nxtDisplayStringAt(94,47," ");
    nxtDisplayStringAt(94,39," ");
} else if(currVar == &inner){
    nxtDisplayStringAt(94,63," ");
    nxtDisplayStringAt(94,55,"*");
    nxtDisplayStringAt(94,47," ");
    nxtDisplayStringAt(94,39," ");
} else if(currVar == &closeGoal) {
    nxtDisplayStringAt(94,63," ");
    nxtDisplayStringAt(94,55," ");
    nxtDisplayStringAt(94,47,"*");
    nxtDisplayStringAt(94,39," ");
} else {
    nxtDisplayStringAt(94,63," ");
    nxtDisplayStringAt(94,55," ");
    nxtDisplayStringAt(94,47," ");
    nxtDisplayStringAt(94,39,"*");
}

//this section is copied from JoystickDriver.c with changed line numbers
if ( externalBatteryAvg < 0){
    nxtDisplayTextLine(5, "Ext Batt: OFF"); //External battery is off or not connected
} else {
    nxtDisplayTextLine(5, "Ext Batt:%4.1f V", externalBatteryAvg / (float) 1000);
}
nxtDisplayTextLine(6, "NXT Batt:%4.1f V", nAvgBatteryLevel / (float) 1000); // Display NXT Battery Voltage

if(nNxtButtonPressed==NEXT_BTN || nNxtButtonPressed==PREV_BTN){
    if(currType=='b'){
        switchBool(currVar,nNxtButtonPressed);
    } else if (currType=='i') {
        switchInt(currVar,nNxtButtonPressed);
    }
    ClearTimer(T1);
    while(nNxtButtonPressed!=kNoButton&&time1[T1]<=400);
}
```

File: D:\Autonomous\autonomous-includes\el-cheato.h

```
if(nNxtButtonPressed==CAT_BTN){
    if(currVar == &right){
        currVar = &inner;
        currType = 'b';
    } else if(currVar == &inner){
        currVar = &closeGoal;
        currType = 'b';
    } else if(currVar == &closeGoal) {
        currVar = &delay;
        currType = 'i';
    } else {
        currVar = &right;
        currType = 'b';
    }
    ClearTimer(T1);
    while(nNxtButtonPressed!=kNoButton&&time1[T1]<=400);
}

}

void displayAutoType()
{
    nxtDisplayTextLine(7,"%s,%s,%s,%i",right?"R":"L",inner?"In":"Out",closeGoal?"Close":"All",delay);
}
```

