Some Quick Programming Suggestions

Here is a small list of programming tricks that we have learned from previous students, as always, test them before you expect them to work and let me know if I was wrong.

To make the robot go a certain distance:

```c
RC.setVel(something, something);
while( !RC.isMOVING()){}
while(RC.isMOVING())
{
    test the distance that you have traveled.
    if( newdistance >= threshold) break;
}
```

use a similar construct for turning.

On the subject of turning, we have heard that turns are more precise if done without the sonars on (lowers overhead of communication from robot to laptop)…

```c
RC.turnSonarsOff();
RC.Spin(45); -or- RC.Turn()
[use above MOVING test just to be sure]
RC.turnSonarsOn();
```

The manual is outdated with respect to the configureSonars function. Here is a quick sample of how to do it.

If you only care about the front two and back two sonars:

```c
int[] temp = new int[4];
temp[0] = 4;
temp[1] = 5;
temp[2] = 12;
temp[3] = 13;

RC.configureSonars(temp, 4);
```

The above will only return data from the front two and back two sonars.

If you shut the sonars off via RC.turnSonarsOff() and then back on RC.turnSonarsOn(), it will undo this change and turn them all back on...just something to be careful of.