<pre>// SKILLS ROUTINE double skills[] = { 270, WRISTSEEK,-1000, INTAKE_ON, DRIVE,127,270,DISTANCE,1,2, DRIVE,80,270,DISTANCE,0.7,2,</pre>	// STARTS FACING 270° // DEPLOY FLIPPER // TURN INTAKE ON // DRIVE TO FLIP CAP // DRIVE TO FLIP CAP
FLIP, WRISTSEEK,WRIST_FORWARD_POS,	// FLIP SO FORKS DON'T DRIFT // PUT FLIPPER DOWN
DRIVE, -127,270, DISTANCE, 0.5,2, TURN, 15,2, DRIVE, -60,15, DISTANCE, 0.6,2, WRISTSEEK, WRIST_VERTICAL_POS, PAUSE, 0.125,	// DRIVE AWAY A LITTLE // TURN TO FACE CAP // DRIVE TO CAP // FLIP CAP // SHORT PAUSE
DRIVE,127,15,DISTANCE,0.3,1, PAUSE,0.25, WRISTSEEK,WRIST_FORWARD_POS, TURN,50,2, DRIVE,-90,50,DISTANCE,0.9,2, WRISTSEEK,WRIST_VERTICAL_POS, PAUSE,0.5,	// DRIVE AWAY FROM CAP // SHORT PAUSE // LOWER FLIPPER // TURN FOR NEXT CAP // DRIVE TO CAP // FLIP CAP // SHORT PAUSE
DRIVE,127,50,DISTANCE,0.5,2, TURN,90,2, DRIVE,127,90,SONAR,0.5,2,	<pre>// DRIVE AWAY FROM CAP // AIM AT START TILE // DRIVE BACK TO TILE</pre>
TURN,0,2, START_COAST, DRIVE,90,0,WHITE_L,0.5, DRIVE,127,0,0.5, DRIVE,127,0,BLACK_L,2, DRIVE,127,0,0.2, DRIVE,90,0,WHITE_L,2,	<pre>// TURN TO FACE FLAGS // START FLYWHEEL SPINUP // DRIVE SO DEF. ON TILE // DRIVE A LITTLE // DRIVE OFF TILE // DRIVE A LITTLE // DRIVE TO NEXT TILE</pre>
TURN_AIM, BLUE_FLAG, CENTER, 2, DRIVE, 90, CDIR, DISTANCE, 0.8, 2, FIRE_AIM, TOP, PAUSE, FIRED, 2, PAUSE, 0.5, STOP_FIRE,	<pre>// AIM AT LEFT-MOST BLUE FLAG // DRIVE TO TOP FLAG DIST // SHOOT TOP FLAG // WAIT TILL SHOT // SHORT PAUSE // STOP FLYWHEEL</pre>
DRIVE, 127, CDIR, DISTANCE, 0.8, 2, FIRE_AIM, MIDDLE, PAUSE, FIRED, 2, PAUSE, 0.5, STOP_FIRE, STOP_COAST,	<pre>// DRIVE TO MIDDLE FLAG DIST // SHOOT MIDDLE FLAG // WAIT TILL SHOT // SHORT PAUSE // STOP FLYWHEEL // TURN FLYWHEEL FULLY OFF</pre>

```
DRIVE, 127, 0, 0.3,
                                      // DRIVE TO TOGGLE BOTTOM FLAG
TURN, 0, 0.5,
                                      // TURN STRAIGHT
INTAKE_ON,
                                      // TURN INTAKE ON
DRIVE, -127, 0, 0.3,
                                      // DRIVE AWAY A LITTLE
TURN, 0, 1,
                                      // TURN STRAIGHT
                                      // DRIVE TO START TILE
DRIVE, -127, 0, WHITE L, 2,
DRIVE, -127, 0, DISTANCE, 0.5, 1,
                                      // DRIVE TO LINE UP
TURN, 270, 2,
                                      // TURN FOR NEXT MOVE
TURN, 265, 2,
                                      // TURN FOR NEXT MOVE
DRIVE, 127, 270, BLACK_B, 1,
                                      // DRIVE OFF TILE
DRIVE, 127, 270, DISTANCE, 1.3, 2,
                                      // DRIVE TO GET BALL
INTAKE ON,
                                      // MAKE SURE INTAKE IS ON
PAUSE, 0.5,
                                      // PAUSE TO LET BALL IN
WRISTSEEK, WRIST FORWARD POS,
                                      // GET WRIST READY FOR FLIP
DRIVE, -127, 270, DISTANCE, 0.45, 2,
                                      // DRIVE AWAY FROM CAP
TURN, 215, 2,
                                      // TURN FOR CAP FLIP
DRIVE, -100, 215, DISTANCE, 0.7, 2,
                                      // DRIVE TO CAP
WRISTSEEK, WRIST_VERTICAL_POS,
                                      // FLIP CAP
PAUSE, 0.125,
                                      // SHORT PAUSE
                                      // DRIVE AWAY FROM CAP
DRIVE, 100, 215, DISTANCE, 0.1, 2,
TURN, 270, 2,
                                      // TURN FOR NEXT MOVE
START_COAST,
                                      // START FLYWHEEL SPINUP
DRIVE, 127, 270, DISTANCE, 0.75, 2,
                                      // DRIVE TO LINE UP
                                      // SHORT PAUSE
PAUSE, 0.25,
TURN, 0, 1,
                                      // TURN TO AIM
TURN_AIM, BLUE_FLAG, CENTER, 2,
                                      // AIM AT CENTRE-MOST BLUE
FLAG
DRIVE, -90, CDIR, SONAR, 1.2, 1,
                                      // SHOOT TOP FLAG
FIRE AIM, TOP,
PAUSE, FIRED, 2,
                                      // WAIT TILL SHOT
                                      // SHORT PAUSE
PAUSE, 0.5,
STOP_FIRE,
                                      // STOP FLYWHEEL
TURN_AIM, BLUE_FLAG, CENTER, 1,
                                      // AIM AT CENTRE-MOST BLUE
FLAG
DRIVE, 127, CDIR, SONAR, 0.8, 2,
                                      // DRIVE TO MIDDLE FLAG DIST
IF, GOTBALL,
                                      // IF WE HAVE ANOTHER BALL
                                      // SHOOT MIDDLE FLAG
    FIRE_AIM, MIDDLE,
                                      // SHORT PAUSE
    PAUSE, 0.5,
    PAUSE, FIRED, 2,
                                      // WAIT TILL SHOT
ENDIF,
                                      // END OF IF
STOP_FIRE,
                                      // STOP FLYWHEEL
STOP_COAST,
                                      // TURN FLYWHEEL FULLY OFF
INTAKE_OFF,
                                      // TURN INTAKE OFF
DRIVE, 127, 0, 0.5,
                                      // DRIVE TO TOGGLE BOTTOM FLAG
```

TURN,0,1, INTAKE_ON, DRIVE,-127,0,0.25, TURN,0,1,	// TURN STRAIGHT // TURN INTAKE ON // DRIVE AWAY A LITTLE // TURN STRAIGHT
DRIVE,-127,0,SONAR,1.2,2, WRISTSEEK,WRIST_FORWARD_POS, TURN,83,2, DRIVE,-127,90,DISTANCE,2.5,2, DRIVE,127,90,DISTANCE,0.1,1, WRISTSEEK,WRIST_VERTICAL_POS, PAUSE,0.5,	// DRIVE AWAY FROM FLAG // LOWER FORKS // TURN TO FACE CAP // DRIVE TO CAP // DRIVE AWAY A LITTLE // FLIP CAP // PAUSE A LITTLE
WRISTSEEK, WRIST_FORWARD_POS, DRIVE, 127, 90, DISTANCE, 0.5, 1, TURN, 180, 2, WRISTSEEK, WRIST_VERTICAL_POS, DRIVE, 127, 180, DISTANCE, 0.9, 2, TURN, 90, 2,	// LOWER FORKS // DRIVE AWAY FROM CAP // TURN READY FOR NEXT MOVE // RAISE FORKS // DRIVE TO LINE UP FOR CAP // AIM FOR CAP
DRIVE,127,90,DISTANCE,1,2, INTAKE_ON, START_COAST, PAUSE,0.5, DRIVE,-127,90,DISTANCE,1.25,2, TURN,350,2, TURN_AIM,BLUE_FLAG,LEFT,2,	// DRIVE TO FLIP CAP // INTAKE ON TO GET BALL // TURN FLYWHEEL ON // SHORT PAUSE // DRIVE TO LINE UP FOR SHOT // TURN TO FACE FLAGS // AIM AT RIGHT-MOST BLUE FLAG
<pre>IF, GOTBALLS, DRIVE,-90,CDIR,SONAR,1.5,1, DRIVE,90,CDIR,SONAR,1.5,1, FIRE_AIM,TOP, PAUSE,FIRED,2, PAUSE,0.5, STOP_FIRE, ENDIF,</pre>	// IF WE HAVE TWO BALLS // LINE UP FOR SHOT // LINE UP FOR SHOT // SHOOT TOP FLAG // WAIT TILL SHOT // SHORT PAUSE // STOP FLYWHEEL // END OF IF
TURN_AIM, BLUE_FLAG, CENTER, 1, FLAG DRIVE, 127, CDIR, 0.25, DRIVE, 127, CDIR, SONAR, 1, 2, FIRE_AIM, MIDDLE, PAUSE, FIRED, 2, PAUSE, 0.5, STOP_FIRE,	// AIM AT CENTRE-MOST BLUE // DRIVE CLOSE // DRIVE TO MIDDLE FLAG DIST // SHOOT MIDDLE FLAG // WAIT TILL SHOT // SHORT PAUSE // STOP FLYWHEEL
WRISTSEEK, WRIST_VERTICAL_POS, STOP_COAST, INTAKE_OFF, DRIVE, 127, 0, 0.5,	// RAISE FORKS // TURN FLYWHEEL FULLY OFF // TURN INTAKE OFF // DRIVE TO TOGGLE BOTTOM FLAG

```
TURN, 0, 1,
                                      // TURN STRAIGHT
INTAKE_ON,
                                      // TURN INTAKE ON
DRIVE, -127, 0, 0.5,
                                      // DRIVE AWAY A LITTLE
DRIVE, -127, 0, DISTANCE, 1.5, 2,
                                      // DRIVE BACK
TURN, 270, 2,
                                      // TURN TO FACE BLUE TILE
DRIVE, 127, 270, WHITE_E, 2,
                                      // DRIVE TO BLUE TILE
DRIVE, -90, 270, 0.1,
                                      // DRIVE TO BREAK
TURN, 180, 2,
                                      // TURN
DRIVE, 127, 180, BLACK_L, 2,
                                      // DRIVE OFF TILE
DRIVE, -90, 180, 0.1,
                                      // DRIVE TO BREAK
                                      // TURN TO FACE PLATFORM
TURN, 80, 2,
DRIVE, 127, 90, DISTANCE, 0.5, 1,
                                      // DRIVE TO PLATFORM
DRIVE, 127, 90, DISTANCE, 3, 4,
                                      // PARK
END
                                      // END OF ROUTINE
```

};