<pre>// AUTONOMOUS CODE FOR RED BOT - RED SQUARE double redAuton[] = {</pre>	
180,	// ROBOT STARTS FACING 180°
DRIVE,50,180,DISTANCE,0.1,1,	// DRIVE WITHIN EXPANSION ZONE
WRISTSEEK,-1000, PAUSE,1.5, FLIPSEEK,FLIP_POS1, WRISTSEEK,WRIST_FORWARD_POS, PAUSE,0.5,	// DEPLOY FLIPPER // PAUSE FOR DEPLOY // HOLD FLIPPER STILL // LOWER FORKS // DEPLOY DONE
DRIVE,-70,180,DISTANCE,0.6,1, TURN,135,1, TURN,135,2,	// DRIVE TO LINE UP FOR CAP // AIM AT CAP // AIM AT CAP
DRIVE, -50,135, DISTANCE, 1, 2, WRISTSEEK, WRIST_VERTICAL_POS, PAUSE, 1,	// DRIVE TO CAP 1 // PICK IT UP // TIME TO PICK UP
DRIVE,70,135,WHITE_R,2, OVER START TILE TURN,180,2, DRIVE,70,180,BLACK_R,2, DRIVE,-90,180,DISTANCE,0.1,1, TURN,90,2,	<pre>// DRIVE TILL RIGHT SENSOR IS // TURN FOR NEXT DRIVE // DRIVE UNTIL OFF START TILE // DRIVE TO LINE UP // TURN TO LINE UP</pre>
DRIVE,-90,90,0.1, TURN,90,2, DRIVE,70,90,0.1,	// DRIVE AWAY FROM POLE // TURN TO LINE UP // DRIVE BACK TO WALL
DRIVE,50,90,DISTANCE,0.4,2,	// DRIVE TO WALL
STACK_HIGH, PAUSE,STACKED,10,	// STACK CAP 1 // WAIT TILL STACKED
TURN,90,2, DRIVE,-90,90,DISTANCE,0.5,1, TURN,0,2, DRIVE,90,0,WHITE_L,2, DRIVE,90,0,0.1, DRIVE,90,0,BLACK_B,2, DRIVE,-90,0,0.1, DRIVE,-90,0,0.1, DRIVE,-90,0,DISTANCE,1,2,	<pre>// TURN STRAIGHT // DRIVE AWAY FROM POLE // TURN TO FACE FLAGS // DRIVE ONTO TILE // MAKE SURE ON TILE // DRIVE OFF TILE // DRIVE TO BREAK // DRIVE TO LINE UP</pre>
TURN,270,2, INTAKE_ON, WRISTSEEK,WRIST_VERTICAL_POS, DRIVE,80,270,BLACK_B,1,	// TURN TO FACE CAP // START INTAKE // STOP DEPLOY // DRIVE OFF TILE

```
DRIVE, -80, 270, DISTANCE, 0.125, 2,
                                     // DRIVE BACK FROM CAP
TURN, 345, 2,
                                     // TURN TO FACE FLAGS
DRIVE, 90, 345, DISTANCE, 0.65, 2,
                                      // DRIVE TO FLAG DISTANCE
                                      // TURN TO FACE FLAGS
TURN, 330, 2,
TURN_AIM, BLUE_FLAG, CENTER, 2,
                                      // AIM AT CENTRE BLUE FLAG
PAUSE, 2,
                                      // PAUSE AFTER TURN
PAUSE, UNTIL, 35,
                                      // WAIT AS LATE AS POSSIBLE
START COAST,
                                      // SPINUP FLYWHEEL
TURN_AIM, BLUE_FLAG, CENTER, 2,
                                      // AIM AT CENTRE BLUE FLAG
                                      // PAUSE AFTER TURNING
PAUSE, 2,
PAUSE, UNTIL, 41.25,
                                      // WAIT AS LATE AS POSSIBLE
FIRE AIM, TOP,
                                      // SHOOT TOP FLAG
PAUSE, FIRED, FIRE TRY TIME,
                                      // WAIT TILL SHOT
PAUSE, 0.1,
                                      // SHORT PAUSE
STOP_FIRE,
                                      // STOP FLYWHEEL
DRIVE, 127, CDIR, DISTANCE,
                                      // CONTINUED ON NEXT LINE
MIDDLE_FLAG_DIST, 2,
                                      // DRIVE TO MIDDLE FLAG DIST
FIRE_AIM, TOP,
                                      // SHOOT MIDDLE FLAG
PAUSE, FIRED, FIRE_TRY_TIME,
                                      // WAIT TILL SHOT
PAUSE, 0.1,
                                      // SHORT PAUSE
                                      // STOP FLYWHEEL
STOP_FIRE,
INTAKE OFF,
                                      // TURN INTAKE OFF
DRIVE, 127, CDIR, 0.5,
                                      // DRIVE TO TOGGLE BOTTOM FLAG
DRIVE, -127, 0, 0.5,
                                      // DRIVE AWAY FROM FLAG
INTAKE_ON,
                                      // TURN INTAKE BACK ON
END
                                      // END OF ROUTINE
```

};