<pre>double skills[] = {</pre>	// DODOT CTARTS FACTOR 0700
270,	// ROBOT STARTS FACING 270°
WRISTSEEK,-1000,	// DEPLOY FLIPPER
FLIPSEEK,FLIP_POS1,	// MAKE SURE FLIPPER STRAIGHT
INTAKE ON.	// START INTAKE
SCRAPER, SCRAPER_DOWN_POS,	// LOWER SCRAPER
PAUSE, 0.5,	// PAUSE TO LET SCRAPER DOWN
	// DRIVE OFF TILE
DRIVE, 110, 270, DISTANCE, 1.25, 2,	
WRISTSEEK, WRIST_VERTICAL_POS,	// STOP DEPLOY
WRISTSEER, WRIST_VERTICAL_FOS,	// STOP DEPLOT
FLIPSEEK,FLIP_POS1,	
SCRAPER, SCRAPER_UP_POS,	// RAISE SCRAPER
TURN, 45, 2,	// TURN TO FACE CAP
WRISTSEEK,WRIST_FORWARD_POS,	// LOWER FLIPPER
DRIVE, -50, 45, DISTANCE, 1, 2,	// DRIVE TO CAP
WRISTSEEK, -1,	// TURN WRIST MOTOR OFF
FLIPSEEK, FLIP_POS2,	// FLIP
PAUSE, 0.125,	,, , , , , , , , , , , , , , , , , , , ,
·	// DRIVE AWAY
, , , , , , , , , , , , , , , , , , , ,	
FLIPSEEK,FLIP_POS1,	
///////////////////////////////////////	///////////////////////////////////////
// COMMENT THIS BLOCK IF SKILLS TAK	
// SAVES ~5s AT THE EXPENSE OF 1 PO:	
TURN, 10, 2,	// TURN TO FACE NEXT CAP
	// LOWER FORKS
DRIVE, -50, 10, DISTANCE, 0.5, 2,	// DRIVE TO CAP
	// RAISE FORKS
DRIVE, 60, 10, DISTANCE, 0.1, 0.5,	
	// DRIVE AWAY
// STOP COMMENTING HERE	
START_COAST,	// LET FLYWHEEL SPIN UP TO
SPEED	
TURN, 90, 1.5,	// TURN TO FACE START TILE
FLIPSEEK, FLIP_POS2,	// FLIP
WRISTSEEK, -1,	//   LII
• •	// DDIVE TO STADE TILE
, , , = , ,	// DRIVE TO START TILE
	// BREAK TO STOP
TURN, 0, 2,	// TURN TO FACE FLAGS
WRISTSEEK, WRIST_VERTICAL_POS,	
FLIPSEEK,FLIP_POS1,	
DRIVE.127.1.BLACK L.2.	// DRIVE OFF START TILE

```
DRIVE, 127, 1, 0.1,
                                      // DRIVE TO ENSURE FULLY ON
TILE
DRIVE, 127, 1, WHITE_L, 2,
                                      // DRIVE TO NEXT TILE
DRIVE, 127, 2, DISTANCE, 0.8, 1,
                                      // LINE UP FOR SHOT
PAUSE, 0.1,
                                      // STOP BOUNCE
FIRE AIM, TOP,
                                      // SHOOT TOP FLAG
PAUSE, FIRED, FIRE_TRY_TIME,
                                      // WAIT TILL SHOT
                                      // SHORT PAUSE
PAUSE, 0.1,
STOP_FIRE,
                                      // STOP FLYWHEEL
DRIVE, 127, CDIR, DISTANCE,
                                      // CONTINUED ON NEXT LINE
MIDDLE FLAG DIST-0.05,2,
                                      // 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_FIRE,
                                      // STOP FLYWHEEL
INTAKE_OFF,
                                      // TURN INTAKE OFF
DRIVE, 127, 0, 0.5,
                                      // DRIVE TO TOGGLE BOTTOM FLAG
                                      // DRIVE AWAY FROM FLAG
DRIVE, -127, 0, 0.5,
INTAKE ON,
                                      // TURN INTAKE BACK ON
SCRAPER, SCRAPER_UP_POS,
                                      // RAISE SCRAPER AGAIN
FLIPSEEK, -1,
                                      // STOP TANGLE WITH NET
TURN, 0, 1,
                                      // TURN TO LINE UP
DRIVE, -127, 0, WHITE_L, 2,
                                      // DRIVE TO RED TILE
DRIVE, 90, 0, 0.05,
                                      // BREAK TO STOP
DRIVE, -127, 0, DISTANCE, 0.5, 1,
                                      // DRIVE TO MIDDLE OF IT
TURN, 90, 0,
                                      // TURN TO FACE WALL
FLIPSEEK, FLIP POS1,
                                      // PUT FLIPPER BACK
                                      // DRIVE TO WALL
DRIVE, 100, 90, 0.5,
SET_GYRO, 90,
                                      // SET GYRO
WRISTSEEK, WRIST_FORWARD_POS,
                                      // LOWER FLIPPER
DRIVE, -100, 90, DISTANCE, 0.1, 1,
                                      // DRIVE AWAY FROM WALL
TURN, 135, 2,
                                      // TURN TO FACE NEXT CAP
DRIVE, -90, 135, DISTANCE, 1.7, 3,
                                      // DRIVE TO NEXT CAP
WRISTSEEK, WRIST_VERTICAL_POS,
                                      // LIFT CAP
                                      // PAUSE TO LET IT LIFT
PAUSE, 0.25,
FLIP,
                                      // FLIP THE CAP
TURN, 180, 2,
                                      // TURN TO FACE PLATFORM
WRISTSEEK, -1,
                                      // DROP CAP
SCRAPER, SCRAPER_UP_POS,
                                      // ENSURE SCRAPER IS UP
DRIVE, 127, 180, DISTANCE, 1.3, 2,
                                      // DRIVE TO PLATFORM
SCRAPER, SCRAPER DOWN POS,
                                      // LOWER SCRAPER
```

WRISTSEEK, WRIST_VERTICAL_POS, FLIPSEEK, FLIP_POS1, PAUSE, 0.25,	// LIFT FLIPPER // REVERT FLIPPER // PAUSE TO LET SCRAPER DROP // DRIVE AWAY FROM PLATFORM // LET BALL ROLL IN  // MOVE SCRAPER TO CAP FLIP  // TURN TO FACE NEXT CAP // DRIVE TO FLIP NEXT CAP // PAUSE TO LET BALL INTAKE	TURN, 155, 2, SCRAPER, SCRAPER_DOWN_POS/3, DRIVE, 127, 155, DISTANCE, 1.4, 2,	// TURN TO FACE PLATFORM // LOWER SCRAPER HALF WAY // DRIVE TO PLATFORM
PAUSE, 0.25,	// DRIVE AWAY FROM PLATFORM // LET BALL ROLL IN	SCRAPER, SCRAPER_DOWN_POS, WRISTSEEK, WRIST_VERTICAL_POS,	// LOWER SCRAPER // LIFT FLIPPER
SCRAPER,SCRAPER_DOWN_POS, POSITION	// MOVE SCRAPER TO CAP FLIP	FLIPSEEK, FLIP_POS1, PAUSE, 0.25, DRIVE, -127, 155, DISTANCE, 0.5, 1,	// REVERT FLIPPER // PAUSE TO LET SCRAPER DROP
TURN,270,1, DRIVE,90,270,DISTANCE,1.1,1, PAUSE,0.25, DRIVE,-127,270,DISTANCE,0.25,1,	// TURN TO FACE NEXT CAP // DRIVE TO FLIP NEXT CAP	DRIVE,-127,155,DISTANCE,0.5,1, PAUSE,0.25,	// DRIVE AWAY FROM PLATFORM // PAUSE TO LET BALL ROLL IN
DRIVE, -127, 270, DISTANCE, 0.23, 1,	// DRIVE AWAT TROM CAF	10(11, 70, 2,	// TURN TO FACE NEXT CAP
SCRAPER, SCRAPER_UP_POS,	// LIFT SCRAPER TO SAFETY	POSITION	
DRIVE, 127, 315, DISTANCE, 0.35, 2,	// LIFT SCRAPER TO SAFETY  // TURN TO FACE 315  // DRIVE TO LINE UP  // TURN TO FACE 350  // SHOOT TOP FLAG  // WAIT TILL SHOT  // SHORT PAUSE  // CONTINUED ON NEXT LINE  // DRIVE TO MIDDLE FLAG DIST  // SHOOT MIDDLE FLAG  // WAIT TILL SHOT  // SHORT PAUSE  // STOP FLYWHEEL  // TURN INTAKE OFF  // DRIVE TO TOGGLE BOTTOM FLAG  // TURN INTAKE BACK ON  // RAISE SCRAPER AGAIN  // TURN TO LINE UP  // LINE UP FOR NEXT CAP  // PUT FLIPPER CORRECT WAY UP  // LOWER FLITDER	DRIVE,127,90,DISTANCE,1.25,2, SCRAPER,SCRAPER_UP_POS, PAUSE,0.25, DRIVE,-127,90,WHITE_E,2, DRIVE,90,90,0.05, PAUSE,0.5,	// DRIVE TO FLIP CAP // LIFT TO FLIP CAP FAR // PAUSE TO LET BALL INTAKE
TURN,350,0.5, FIRE_AIM,TOP,	// TURN TO FACE 350 // SHOOT TOP FLAG	DRIVE,-127,90,WHITE_E,2, DRIVE,90,90,0.05,	// DRIVE TO LINE UP FOR FLAGS // DRIVE TO BREAK
PAUSE, FIRED, FIRE_IRY_TIME, PAUSE, 0.1,	// WAIT TILL SHOT // SHORT PAUSE	PAUSE, 0.5,	// PAUSE TO STOP TIPPING
DRIVE 127 COID DISTANCE	// CONTINUED ON NEXT LINE	TURN,1,2, DRIVE,90,0,BLACK_B,2, DRIVE,-90,0,WHITE_E,2, DRIVE,-80,0,DISTANCE,0.1,1,	// DRIVE TO EDGE OF TILE
MIDDLE_FLAG_DIST,2, FIRE.TOP.	// DRIVE TO MIDDLE FLAG DIST // SHOOT MIDDLE FLAG	DRIVE, -80, 0, DISTANCE, 0.1,1,	
PAUSE, FIRED, FIRE_TRY_TIME, PAUSE, 0.1,	// WAIT TILL SHOT // SHORT PAUSE	<pre>FIRE_AIM,TOP, PAUSE,FIRED,FIRE_TRY_TIME,</pre>	// SHOOT TOP FLAG // WAIT TILL SHOT
STOP_FIRE,	// STOP FLYWHEEL	<pre>FIRE_AIM,TOP, PAUSE,FIRED,FIRE_TRY_TIME, PAUSE,0.1, STOP_FIRE,</pre>	// SHORT PAUSE // STOP FLYWHEEL
INTAKE_OFF,	// TURN INTAKE OFF // DRIVE TO TOGGLE BOTTOM FLAG	DRIVE 127 CDIR DISTANCE	// CONTINUED ON NEXT LINE
DRIVE,-127,0,0.5,	// DRIVE AWAY FROM FLAG	MIDDLE_FLAG_DIST, 2,	// DRIVE TO MIDDLE FLAG DIST
INTAKE_ON,	// TURN INTAKE BACK ON	IF,GOTBALL,	// IF WE'VE GOT A BALL
SCRAPER, SCRAPER_UP_POS,	// RAISE SCRAPER AGAIN	DRIVE,127,CDIR,DISTANCE, MIDDLE_FLAG_DIST,2, IF,GOTBALL, FIRE,TOP, PAUSE,FIRED,FIRE_TRY_TIME,	// SHOOT MIDDLE FLAG // WAIT TILL SHOT
TURN,0,0.5,	// TURN TO LINE UP	PAUSE, 0.1,	// SHORT PAUSE
DRIVE,-127,0,SONAR,1.25,2,	// LINE UP FOR NEXT CAP	ENDIF, STOP_FIRE,	// STOP FLYWHEEL
FLIPSEEK, FLIP_POS1,	// PUT FLIPPER CORRECT WAY UP	TUDN 5 0 25	// TIIDN A LITTLE DIT
WRISTSEEK.WRIST FORWARD POS.	// LOWER FLIPPER	INTAKE OFF.	// TURN INTAKE OFF
DRIVE, -127, 90, WHITE_E, 1,	// PUT FLIPPER CORRECT WAY UP // TURN TO FACE NEXT CAP // LOWER FLIPPER // DRIVE ACOSS CENTER WHITE	DRIVE,127,0,0.5,	// DRIVE TO TOGGLE BOTTOM FLAG
LINE		DRIVE,-127,0,0.5,	// DRIVE AWAY FROM FLAG
DRIVE,-90,90,DISTANCE,2.5,2, (SLOWLY)	// DRIVE TO GET NEXT CAP	INTAKE_ON, SCRAPER,SCRAPER_UP_POS,	// TURN A LITTLE BIT // TURN INTAKE OFF // DRIVE TO TOGGLE BOTTOM FLAG // DRIVE AWAY FROM FLAG // TURN INTAKE BACK ON // RAISE SCRAPER AGAIN
WRISTSEEK,WRIST_VERTICAL_POS, DRIVE,127,90,DISTANCE,0.1,1,	// LIFT CAP // DRIVE AWAY FROM WALL	STOP_COAST,	// TURN FLYWHEEL OFF NOW
FLIP,	// FLIP CAP	INTAKE_FLIP, LOSE ANY BALLS	// TURN INTAKE BACKWARDS TO
WRISTSEEK,-1,	// DROP CAP	LOSE ANY BALLS	

```
FLIPSEEK, -1,
                                      // DON'T LET THE FORKS GET
CAUGHT
                                      // TURN TO LINE UP
TURN, 20, 0.8,
DRIVE, -127, 20, WHITE_R, 2,
                                      // DRIVE UNTIL ON THE TILE
DRIVE, -127, 20, 0.1,
                                      // DRIVE TO BE FULLY ON TILE
TURN, 0, 0.5,
                                      // TURN TO LINE UP
DRIVE, -127, 0, BLACK_R, 2,
                                      // DRIVE UNTIL OFF THE TILE
DRIVE, -127, 0, DISTANCE, 0.4, 2,
                                      // DRIVE TO LINE UP
TURN, 80, 0.8,
                                      // TURN TO FACE PLATFORM
INTAKE_ON,
                                      // ENSURE INTAKE IS RUNNING
WRISTSEEK, WRIST_FORWARD_POS,
                                      // PUT FLIPPER DOWN
FLIPSEEK, FLIP_POS1,
                                      // MAKE SURE FLIPPER STRAIGHT
DRIVE, 127, 80, DISTANCE, 0.75, 1,
                                      // DRIVE TO PLATFORM
DRIVE, 127, 80, WHITE_B, 1,
                                      // DRIVE UP FIRST PLATFORM
DRIVE, 127, 80, DISTANCE, 2, 4,
                                      // DRIVE UP PLATFORM 2.75
END,
                                      // END OF ROUTINE
```

};