

# PROGRAMMING WITH THE TI84+CE

```

NORMAL FLOAT AUTO REAL RADIAN MP
PROGRAM: MENU
:
: 1: Execute Program
: Ser 2: Undo Clear
ONNE 3: Insert Line Above
      4: Cut Line
      5: Copy Line
      6: Paste Line Below
      7: Insert Comment Above
      8: Quit Editor [2nd][quit]
[FRAC] [FUNC] [YVAR] [MENU]
    
```

```

NORMAL FLOAT AUTO REAL RADIAN MP
CTL I/O COLOR EXEC HUB
1: If
2: Then
3: Else
4: For(
5: While
6: Repeat
7: End
8: Pause
9↓Lb1
0↑Goto
A: Wait
B: IS>(
C: DSK(
D: Menu(
E: prgm
F: Return
G: Stop
[2nd]DelVar
I: GraphStyle(
J: GraphColor(
K: OpenLib(
[2nd]ExecLib
    
```

```

NORMAL FLOAT AUTO REAL RADIAN MP
CTL I/O COLOR EXEC HUB
1: Input
2: Prompt
3: Disp
4: DispGraph
5: DispTable
6: Output(
7: getKey
8: ClrHome
9↓ClrTable
0: GetCalc(
A: Get(
B: Send(
C: eval(
D: expr(
E: toString(
[2nd]String→Equ(
    
```

```

NORMAL FLOAT AUTO REAL RADIAN MP
CTL I/O COLOR EXEC HUB
1: BLUE
2: RED
3: BLACK
4: MAGENTA
5: GREEN
6: ORANGE
7: BROWN
8: NAVY
9↓LTBLUE
0: YELLOW
A: WHITE
B: LTGRAY
C: MEDGRAY
D: GRAY
E: DARKGRAY
    
```

```

NORMAL FLOAT AUTO REAL RADIAN MP
CTL I/O COLOR EXEC HUB
1: Send("SET...
2: Send("READ...
3: Settings...
4: Wait
5: Get(
6: eval(
7: Rover (RV)...
8: Send("CONNECT-Output...
9↓Send("CONNECT-Input...
0: Ports...
A: Send("RANGE...
B: Send("AVERAGE...
C: Send("DISCONNECT-Output...
D: Send("DISCONNECT-Input...
E: Manage...
    
```

```

NORMAL FLOAT AUTO REAL RADIAN MP
Send("SET
1: LIGHT 1: Send("SET...
2: COLOR
3: COLOR.RED
4: COLOR.GREEN
5: COLOR.BLUE
6: SOUND
7: LED
8: SPEAKER
9↓BUZZER
0↑RELAY
A: SERVO
B: SERVO.CONTINUOUS
C: DCMOTOR
D: VIB.MOTOR
E: SQUAREWAVE
F: RGB
G: ANALOG.OUT
[2nd]DIGITAL.OUT
[2nd]AVERAGING
    
```

```

NORMAL FLOAT AUTO REAL RADIAN MP
CTL I/O COLOR EXEC HUB
1: MENU
2: VERSION
    
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("READ
1: BRIGHTNESS
2: DHT 2: Send("READ...
3: RANGER
4: LOUDNESS
5: LIGHTLEVEL
6: TEMPERATURE
7: SWITCH
8: BUTTON
9↓ MOTION
0: POTENTIOMETER
A: MOISTURE
B: THERMISTOR
C: ANALOG. IN
D: DIGITAL. IN
E: AVERAGING
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
Settings
1: ON 3: Settings...
2: OFF
3: TO
4: TIME
5: BLINK
6: TEMPERATURE
7: HUMIDITY
8: CW
9↓ CCW
0: TOGGLE
A: PULLDOWN
B: INPUT
```

```
7: Rover (RV)...
NORMAL FLOAT AUTO REAL RADIAN MP
Rover (RV)
1: Drive RV...
2: Read RV Sensors...
3: RV Settings...
4: Read RV Path...
5: RV Color...
6: RV Setup...
7: RV Control...
8: Send("CONNECT RV")
9: Send("DISCONNECT RV")
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
RV Settings
1: SPEED
2: TIME
3: DISTANCE
4: UNITS/S
5: M/S
6: REVS/S
7: UNITS
8: M
9↓ REVS
0↑ DEGREES
A↑ RADIAN
B: GRADS
C: XYLINE
D: LEFT
E: RIGHT
F: BRAKE
G: COAST
H: CW
I: CCW
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("RV
1: FORWARD
2: BACKWARD
3: LEFT
4: RIGHT
5: STOP
6: RESUME
7: STAY
8: TO XY
9↓ TO POLAR
0: TO ANGLE
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("READ
1: RV. RANGER
2: RV. COLORINPUT
3: RV. COLORINPUT. RED
4: RV. COLORINPUT. GREEN
5: RV. COLORINPUT. BLUE
6: RV. COLORINPUT. GRAY
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("READ
1: RV. WAYPOINT. XYTHDRN
2: RV. WAYPOINT. PREV
3: RV. WAYPOINT. CMDNUM
4: RV. PATHLIST. X
5: RV. PATHLIST. Y
6: RV. PATHLIST. TIME
7: RV. PATHLIST. HEADING
8: RV. PATHLIST. DISTANCE
9↓ RV. PATHLIST. REVS
0: RV. PATHLIST. CMDNUM
A: RV. WAYPOINT. X
B: RV. WAYPOINT. Y
C: RV. WAYPOINT. TIME
D: RV. WAYPOINT. HEADING
E: RV. WAYPOINT. DISTANCE
F: RV. WAYPOINT. REVS
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("SET
1: RV. COLOR
2: RV. COLOR. RED
3: RV. COLOR. GREEN
4: RV. COLOR. BLUE
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("SET
1: RV. POSITION
2: RV. GYRO
3: RV. GRID. ORIGIN
4: RV. GRID. M/UNIT
5: RV. PATH CLEAR
6: RV MARK
```

8: Send("CONNECT-Output...

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("
1:SET RV.MOTORS
2:SET RV.MOTOR.L
3:SET RV.MOTOR.R
4:SET RV.ENCODERSGYRO 0
5:READ RV.ENCODERSGYRO
6:READ RV.GYRO
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("CONNECT OUTPUT
1:LIGHT
2:COLOR
3:SOUND
4:LED
5:SPEAKER
6:BUZZER
7:RELAY
8:SERVO
9↓SERVO.CONTINUOUS
0:DCMOTOR
A:VIB.MOTOR
B:SQUAREWAVE
C:RGB
D:ANALOG.OUT
E:DIGITAL.OUT
```

9↓Send("CONNECT-Input...

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("CONNECT INPUT
1:BRIGHTNESS
2:DHT
3:RANGER
4:LOUDNESS
5:LIGHTLEVEL
6:TEMPERATURE
7:SWITCH
8:BUTTON
9↓MOTION
0:POTENTIOMETER
A:MOISTURE
B:THERMISTOR
C:ANALOG.IN
D:DIGITAL.IN
```

0: Ports...

```
NORMAL FLOAT AUTO REAL RADIAN MP
Ports
1:OUT 1
2:OUT 2
3:OUT 3
4:IN 1
5:IN 2
6:IN 3
7:I2C
8:BB 1
9↓BB 2
0:BB 3
A:BB 4
B:BB 5
C:BB 6
D:BB 7
E:BB 8
F:BB 9
G:BB 10
```

A: Send("RANGE...

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("RANGE
1:BRIGHTNESS
2:LOUDNESS
3:LIGHTLEVEL
4:TEMPERATURE
5:POTENTIOMETER
6:MOISTURE
7:THERMISTOR
8:ANALOG.IN
```

B: Send("AVERAGE...

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("AVERAGE
1:BRIGHTNESS
2:LOUDNESS
3:LIGHTLEVEL
4:TEMPERATURE
5:POTENTIOMETER
6:MOISTURE
7:THERMISTOR
8:ANALOG.IN
```

D: Send("DISCONNECT-Input...

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("DISCONNECT OUTPUT
1:LIGHT
2:COLOR
3:SOUND
4:LED
5:SPEAKER
6:BUZZER
7:RELAY
8:SERVO
9↓SERVO.CONTINUOUS
0:DCMOTOR
A:VIB.MOTOR
B:SQUAREWAVE
C:RGB
D:ANALOG.OUT
E:DIGITAL.OUT
```

C: Send("DISCONNECT-Output...

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("DISCONNECT INPUT
1:BRIGHTNESS
2:DHT
3:RANGER
4:LOUDNESS
5:LIGHTLEVEL
6:TEMPERATURE
7:SWITCH
8:BUTTON
9↓MOTION
0:POTENTIOMETER
A:MOISTURE
B:THERMISTOR
C:ANALOG.IN
D:DIGITAL.IN
```

E: Manage...

```
NORMAL FLOAT AUTO REAL RADIAN MP
Send("
1:BEGIN"):Get(Str0):Disp
2:ISTI"):Get(Str0):Disp
3:WHO"):Get(Str0):Disp
4:WHAT"):Get(Str0):Disp
5:HELP"):Get(Str0):Disp
6:VERSION"):Get(Str0):Disp
7:ABOUT"):Get(Str0):Pause
MANAGE
```