```
# This is a general use makefile for robotics cape projects written in C.
    # Just change the target name to match your main source code filename.
 3
    TARGET = balance
 4
    CC
           := gcc
 6 LINKER := gcc -o
 7 CFLAGS
                := -c -Wall -q
 8 LFLAGS
                := -lm -lrt -lpthread -lroboticscape
 9
10 SOURCES := $ (wildcard *.c)
11 INCLUDES := $ (wildcard *.h)
12 OBJECTS := $ (SOURCES:$%.c=$%.o)
13
14 prefix := /usr/local
15 RM := rm -f
16 INSTALL := install -m 4755
17 INSTALLDIR := install -d -m 755
18
19 LINK := ln -s -f
20 LINKDIR := /etc/roboticscape
21 LINKNAME := link_to_startup_program
22
23
24 # linking Objects
25
    $ (TARGET): $ (OBJECTS)
26
         @$(LINKER) $(@) $(OBJECTS) $(LFLAGS)
27
28
29 # compiling command
30 $(OBJECTS): %.o : %.c $(INCLUDES)
31
        @$(CC) $(CFLAGS) -c $< -o $(@)
32
         @echo "Compiled: "$<</pre>
33
34 all:
35 $ (TARGET)
36
37 debug:
38
        $(MAKE) $(MAKEFILE) DEBUGFLAG="-q -D DEBUG"
         @echo " "
39
        @echo "$(TARGET) Make Debug Complete"
40
        @echo " "
41
42
43 install:
44 @$(MAKE) --no-print-directory
45
        @$(INSTALLDIR) $(DESTDIR)$(prefix)/bin
46
        @$(INSTALL) $(TARGET) $(DESTDIR)$(prefix)/bin
47
         @echo "$(TARGET) Install Complete"
48
49 clean:
50
     @$(RM) $(OBJECTS)
51
        @$(RM) $(TARGET)
52
         @echo "$(TARGET) Clean Complete"
53
54 uninstall:
55
         @$(RM) $(DESTDIR)$(prefix)/bin/$(TARGET)
56
         @echo "$(TARGET) Uninstall Complete"
57
58 runonboot:
59
       @$(MAKE) install --no-print-directory
60
        @$(LINK) $(DESTDIR)$(prefix)/bin/$(TARGET) $(LINKDIR)/$(LINKNAME)
61
        @echo "$(TARGET) Set to Run on Boot"
62
```