```
# $Id: Makefile,v 1.1 2011-03-24 17:25:29-07 - - $

all : foo bar
	echo all

foo :
	echo foo

bar :
	echo bar

```

```
# $Id: Makefile,v 1.1 2011-03-24 17:25:20-07 - - $

hello : hello.c
        cc hello.c -o hello

bad : bad.c
        cc bad.c -o bad

ci : Makefile hello.c bad.c
        cid Makefile hello.c bad.c

```

```
# $Id: Makefile,v 1.1 2011-03-24 17:24:59-07 - - $

all : hello

hello : main.o hello.o
	cc main.o hello.o -o hello

main.o : main.c hello.h
	cc -c main.c

hello.o : hello.c hello.h
	cc -c hello.c

ci : Makefile main.c hello.c hello.h
	cid Makefile main.c hello.c hello.h

test : hello
	./hello

clean :
	- rm hello.o main.o

spotless : clean
	- rm hello

```

```
# $Id: Makefile,v 1.1 2011-03-24 17:24:36-07 - - $

SOURCES = main.c hello.c
HEADERS = hello.h
OBJECTS = main.o hello.o
CHECKIN = Makefile ${SOURCES} ${HEADERS}
EXECBIN = hello

all : ${EXECBIN}

${EXECBIN} : ${OBJECTS}
        cc ${OBJECTS} -o ${EXECBIN}

main.o : main.c hello.h
        cc -c main.c

hello.o : hello.c hello.h
        cc -c hello.c

ci : ${CHECKIN}
        cid ${CHECKIN}

test : ${EXECBIN}
        ./${EXECBIN}

clean :
        - rm ${OBJECTS}

spotless : clean
        - rm ${EXECBIN}

```

```
# $Id: Makefile,v 1.1 2011-03-24 17:23:58-07 - - $

MKFILE   = Makefile
CCOPTS   = -D__EXTENSIONS__ -Xc -v -g -xO0
LINTOPTS = -D__EXTENSIONS__ -Xa -fd -m -u -x -errchk=%all,no%longptr64
SOURCES  = main.c hello.c
HEADERS  = hello.h
OBJECTS  = main.o hello.o
CHECKIN  = ${MKFILE} ${SOURCES} ${HEADERS}
EXECBIN  = hello

all : ${EXECBIN}

${EXECBIN} : ${OBJECTS}
	cc ${CCOPTS} ${OBJECTS} -o ${EXECBIN}

%.o : %.c
	cc ${CCOPTS} -c $<

ci : ${CHECKIN}
	cid + ${CHECKIN}

lint : ${SOURCES}
	lint ${LINTOPTS} ${SOURCES}

test : ${EXECBIN}
	./${EXECBIN} ; echo status = $$?

clean :
	- rm ${OBJECTS}

spotless : clean
	- rm ${EXECBIN}

hello.o: hello.c
hello.o: hello.h
main.o: hello.h
main.o: main.c
```

```
# $Id: Makefile,v 1.1 2011-03-24 17:23:13-07 - - $

MKFILE     = Makefile
JAVASRC    = queue.java qtest.java
CLASSES    = queue.class qtest.class
JARCLASSES = ${CLASSES} queue\$$emptyexn.class queue\$$node.class
JARFILE    = qtest
MAINCLASS  = qtest
SOURCES    = ${JAVASRC} ${MKFILE}

all : ${JARFILE}

${JARFILE} : ${CLASSES}
	echo Main-class: ${MAINCLASS} >Manifest
	jar cvfm ${JARFILE} Manifest ${JARCLASSES}
	chmod +x ${JARFILE}
	- rm Manifest

%.class : %.java
	cid + $<
	javac $<

clean :
	- rm ${JARCLASSES}

spotless : clean
	- rm ${JARFILE}

ci : ${SOURCES}
	cid + ${SOURCES}

test : ${JARFILE}
	./${JARFILE} * | cat -n

```

```
# $Id: Makefile,v 1.1 2011-03-24 17:21:42-07 - - $

#
# Article: 856 of ucsc.class.cmps112
# From: Daniel Keller <keller@ucsc.edu>
# Macros should not be replaced until they are used (not when they
# are first seen). E.g. The following makefile should print 'Heller':
#

X       = Orwell
Y       = ${X}
X       = Heller
all:
        echo  ${Y}

```

```
# $Id: Makefile1,v 1.1 2011-03-24 17:20:58-07 - - $

all : foo.o

%.o : %.c
        echo first %.o : %.c

%.o : %.c
        echo second %.o : %.c

foo.o: foo.c foo.h bar.h baz.h
```

```
# $Id: Makefile2,v 1.1 2011-03-24 17:20:58-07 - - $

all : foo.o

foo.o : foo.c
        echo specific foo.o : foo.c

%.o : %.c
        echo first %.o : %.c

%.o : %.c
        echo second %.o : %.c

foo.o: foo.c foo.h bar.h baz.h
```