

```
1: # $Id: Makefile,v 1.1 2020-02-03 15:26:36-08 - - $
2:
3: # Note: "echo all" is echoed, but echo of "foo" and "bar" are not.
4:
5: all : foo bar
6:      echo all - command 'IS' echoed
7:
8: foo :
9:      @ echo foo - command not echoed
10:
11: bar :
12:      @ echo bar - command not echoed
13:
```

```
1: # $Id: Makefile,v 1.1 2020-02-03 15:27:08-08 - - $
2:
3: hello : hello.c
4:         gcc hello.c -o hello
5:
6: bad : bad.c
7:         gcc bad.c -o bad
8:
9: ci : Makefile hello.c bad.c
10:        cid Makefile hello.c bad.c
11:
```

```
1: # $Id: Makefile,v 1.1 2020-02-03 15:27:37-08 - - $
2:
3: all : hello
4:
5: hello : main.o hello.o
6:         gcc main.o hello.o -o hello
7:
8: main.o : main.c hello.h
9:         gcc -c main.c
10:
11: hello.o : hello.c hello.h
12:         gcc -c hello.c
13:
14: ci : Makefile main.c hello.c hello.h
15:         cid Makefile main.c hello.c hello.h
16:
17: test : hello
18:         ./hello
19:
20: clean :
21:         - rm hello.o main.o
22:
23: spotless : clean
24:         - rm hello
25:
```

```
1: # $Id: Makefile,v 1.1 2020-02-03 15:28:10-08 - - $
2:
3: SOURCES = main.c hello.c
4: HEADERS = hello.h
5: OBJECTS = main.o hello.o
6: CHECKIN = Makefile ${SOURCES} ${HEADERS}
7: EXECBIN = hello
8:
9: all : ${EXECBIN}
10:
11: ${EXECBIN} : ${OBJECTS}
12:      gcc ${OBJECTS} -o ${EXECBIN}
13:
14: main.o : main.c hello.h
15:      gcc -c main.c
16:
17: hello.o : hello.c hello.h
18:      gcc -c hello.c
19:
20: ci : ${CHECKIN}
21:      cid ${CHECKIN}
22:
23: test : ${EXECBIN}
24:      ./${EXECBIN}
25:
26: clean :
27:      - rm ${OBJECTS}
28:
29: spotless : clean
30:      - rm ${EXECBIN}
31:
```

```
1: # $Id: Makefile,v 1.1 2020-02-03 15:28:34-08 - - $
2:
3: MKFILE    = Makefile
4: CCOPTS    = -g -O0 -Wall -Wextra
5: SOURCES   = main.c hello.c
6: HEADERS   = hello.h
7: OBJECTS   = main.o hello.o
8: CHECKIN   = ${MKFILE} ${SOURCES} ${HEADERS}
9: EXECBIN   = hello
10:
11: all : ${EXECBIN}
12:
13: ${EXECBIN} : ${OBJECTS}
14:             cc ${CCOPTS} ${OBJECTS} -o ${EXECBIN}
15:
16: %.o : %.c
17:             cc ${CCOPTS} -c $<
18:
19: ci : ${CHECKIN}
20:             cid + ${CHECKIN}
21:
22: test : ${EXECBIN}
23:             ./${EXECBIN} ; echo status = $$?
24:
25: clean :
26:             - rm ${OBJECTS}
27:
28: spotless : clean
29:             - rm ${EXECBIN}
30:
31: hello.o: hello.c hello.h
32: main.o: main.c hello.h
33:
```