```
1: #!/usr/bin/perl
 2: # $Id: graph.perl,v 1.1 2018-11-06 18:50:43-08 - - $
 3:
 4: use strict;
 5: use warnings;
 6: 0 = |s|.*/||;
7:
 8: # Example setting up a directed graph.
9:
10: my @inputs = (
11:
       "all : hello",
12:
       "hello: main.o hello.o",
13:
       "main.o : main.c hello.h",
14:
       "hello.o : hello.c hello.h",
15:
       "ci : Makefile main.c hello.c hello.h",
16:
       "test : hello",
17:
       "clean : ",
18:
       "spotless : clean",
19:);
20:
21: sub parse_dep ($) {
22:
       my ($line) = @_;
       return undef unless = m/^(\S+) \s^*:\s^*(.*?)\s^*$/;
23:
24:
       my (\$target, \$dependency) = (\$1, \$2);
       my @dependencies = split m/\s+/, $dependency;
25:
26:
       return $target, \@dependencies;
27: }
28:
29: my %graph;
30: for my $input (@inputs) {
       my ($target, $deps) = parse_dep $input;
       print "$0: syntax error: $input\n" and next unless defined $target;
32:
33:
       $graph{$target} = $deps;
34: }
35:
36: for my $target (keys %graph) {
       print "\"$target\"";
37:
38:
       my $deps = $graph{$target};
39:
       if (not @$deps) {
40:
          print " has no dependencies";
41:
       }else {
42:
          print " depends on";
          print " \"$_\"" for @$deps;
43:
44:
45:
       print "\n";
46: }
47:
```

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\$cse112-wm/Assignments/asg4-perl-pmake/code graph.output

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- 1: "test" depends on "hello"
- 2: "clean" has no dependencies
- 3: "all" depends on "hello"
- 4: "main.o" depends on "main.c" "hello.h"
- 5: "ci" depends on "Makefile" "main.c" "hello.c" "hello.h"
- 6: "hello.o" depends on "hello.c" "hello.h"
 7: "spotless" depends on "clean"
- 8: "hello" depends on "main.o" "hello.o"