```
/* File: compass.ch
 3
     * First make sure that all the linkbot joints are set to zero, it is in the
 4
      * two wheels two wheels configuration, and pointing North. When this program is
      * ran it reads in the letters \{N,E,S,W\} in any order up to 100 times. Then the
 6
      * programs reads in each of these letters one at a time and has the linkbot point
      * in that compass direction.
9
      * Author: Mr. Dagler
10
11
12
    #include <linkbot.h>
13
14
    int main() {
15
         CLinkbotI bot;
16
         char directions[100];
17
         int i;
18
19
        bot.resetToZero();
20
21
         printf("Enter the directions you want the linkbot to point: [N,E,S, or W] ");
22
         scanf("%s", directions);
23
24
         i=0;
2.5
         while (directions[i]!=NULL) {
26
             if (directions[i] == 'N' || directions[i] == 'n') {
27
                 bot.moveTo(0, NaN, 0);
                                                                  // points North
28
29
             else if(directions[i]=='E' || directions[i]=='e') {
30
                 bot.moveTo(93, NaN, 93);
                                                                   // points East
31
             else if(directions[i]=='S' || directions[i]=='s') {
32
33
                 bot.moveTo(186, NaN, 186);
                                                                   // points South
34
35
             else if(directions[i]=='W' || directions[i]=='w') {
36
                 bot.moveTo(-93, NaN, -93);
                                                                   // points West
37
38
             i = i+1;
39
             sleep(1);
40
         }
41
42
        return 0;
43
     }
44
45
46
```