```
1 //
 2 // Created by hengxin on 9/14/23.
 3 //
 4
 5 #include <stdio.h>
 6 #include <time.h>
 7 #include <stdlib.h>
8
9 int main(void) {
10
     int high = 100;
11
     int number_of_tries = 7;
12
13
     /*
14
     * (1) print the rules of the game to players
15
      */
16
     printf("Let us play the Guess the Number game.\n"
17
            "The computer will generate a random number
   between 1 and %d.\n"
18
            "You have %d tries.\n",
19
            high, number_of_tries);
20
21
     /*
22
      * (2) generate a random number between 1 and high
23
      */
24
     srand(time(NULL));
25
     int secret = rand() % high + 1;
26
     printf("Test: secret = %d\n", secret);
27
28
     while (number_of_tries > 0) {
29
30
        * (3) ask the player to enter his/her guess
31
        */
32
       printf("Please enter your guess number.\n"
              "You still have %d tries.\n", number_of_tries);
33
34
35
       /*
36
        * (4) obtain the guessed number, compare it with the
   secret number,
37
              and inform the player of the result.
        *
38
        */
39
       int guess = 0;
40
       scanf("%d", &guess);
41
       printf("Test: guess = %d\n", guess);
42
```

```
File - /home/hengxin/Documents/cpl/2023-cpl-coding-0/guess.c
          if (guess == secret) {
43
44
             printf("You Win!\n");
45
             break;
```

```
46
       } else if (guess > secret) {
         printf("guess > secret\n");
47
48
       } else {
         printf("guess < secret\n");</pre>
49
50
       }
51
52
       /*
        * (5) repeat (3) and (4) until the player wins or
53
   loses.
54
        */
55
       number_of_tries--;
56
57
       if (number_of_tries == 0) {
         printf("You Lose!\n");
58
       }
59
     }
60
61
62
     return 0;
```

63 }