```c
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"
33                "You still have %d tries.\n", number_of_tries);
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
43         if (guess == secret) {
44             printf("You Win!\n");
45             break;
46         } else if (guess > secret) {
47             printf("guess > secret\n");
48         } else {
49             printf("guess < secret\n");
50         }
51
```

```
52      /*
53       * (5) repeat (3) and (4) until the player wins or loses.
54       */
55      number_of_tries--;
56
57      if (number_of_tries == 0) {
58        printf("You Lose!\n");
59      }
60    }
61
62    return 0;
63 }
```