```c
 1 //
 2 // Created by hfwei on
   2022/9/21.
 3 //
 4
 5 #include <stdio.h>
 6 #include <stdlib.h>
 7 #include <time.h>
 8
 9 int main() {
10   int high = 100;
11   int number_of_tries = 2;
12
13   /**
14    * (1) print the rules
   of the game to players
15    */
16   printf("=========\n"
17          "Let us play the
   Guess the Number game.\n"
18          "The computer
   will generate a random
```

```c
18 number between 1 and %d.\n
   "
19             "You have totally
   %d tries.\n"
20             "==========\n",
21          high,
   number_of_tries);
22
23   /**
24    * (2) generate a random
   number between 1 and high
   as the secret number
25    */
26  srand(time(NULL));
27  int secret = rand() %
   high + 1;
28  printf("=====Just for
   Test: secret = %d.=====\n"
   , secret);
29
30   /**
31    * (3) ask the player to
```

```c
31    input a guess
32     */
33    while (number_of_tries
    > 0) {
34      printf("You still have
    %d tries.\n"
35              "Please input
    your guess.\n",
    number_of_tries);
36
37      /**
38       * (4) obtain the
    guessed number,
39       * compare it with the
    secret number,
40       * and inform the
    player of the result
41       */
42      int guess;
43      scanf("%d", &guess);
44
45      if (guess == secret) {
```

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

```
60 Lose!");
61        }
62    }
63
64    return 0;
65 }
```