时间测试函数举例

```
1 | #include <chrono>
 2
   #include <iostream>
   #include <iomanip>
 3
 4
 5
 6
   void boo() {
 7
        for (int i = 1; i \le 30800888; ++i) {
            int j = i * i;
 8
 9
        }
    }
10
11
12
    double test_1() {
13
        auto start = std::chrono::high_resolution_clock::now();
14
        // test part
15
        boo();
16
17
        auto end = std::chrono::high_resolution_clock::now();
18
        std::chrono::duration<double> diff = end - start;
19
        std::cout << std::fixed << std::setprecision(10) << diff.count() <</pre>
    std::endl;
        return diff.count();
21
22 }
```

```
#include <time.h>
 1
 2
    void boo() {
 3
 4
        for (int i = 1; i \le 30800888; ++i) {
 5
            int j = i * i;
 6
        }
 7
    }
 8
 9
    double test_2() {
10
        double start = clock();
        // test part
11
        boo();
12
13
        double end = clock();
14
15
        double diff = (end - start) / CLOCKS_PER_SEC; // C 风格时间测量的精度为 1 毫
        printf("%.10f\n", diff);
16
        return diff;
17
18
19
```

随机数生成函数举例

```
1 #include <iostream>
 2 #include <stdlib.h>
 3 #include <time.h>
4 using namespace std;
 5 int main() {
       srand((unsigned)time(NULL));
 7
8
      for(int i = 0; i < 10; i++)
9
           cout << rand() << '\t';
10
      cout << endl;</pre>
11
       return 0;
12 }
```