

```

1  #include <iostream>
2  #include <cmath>
3  #include <cstdlib>
4
5  int main() {
6      std::cout << "Enter the number of random numbers used " << std::endl;
7      int N;
8      std::cin >> N;
9
10     double sum1;
11     double sum2;
12     double sum3;
13     double sum4;
14     double sum5;
15     double sum6;
16
17     double R;
18
19     // initialize random seed
20     srand (clock());
21
22     for (int i = 0; i < N; i++) {
23         R = static_cast<double>(rand() / RAND_MAX);
24         sum1 += R;
25         sum2 += std::pow(R, 2);
26         sum3 += std::pow(R, 3);
27         sum4 += std::pow(R, 4);
28         sum5 += std::pow(R, 5);
29         sum6 += std::pow(R, 6);
30     }
31     std::cout << sum1 << std::endl;
32     std::cout << sum2 << std::endl;
33     std::cout << sum3 << std::endl;
34     std::cout << sum4 << std::endl;
35     std::cout << sum5 << std::endl;
36     std::cout << sum6 << std::endl;
37     return 0;
38 }

```