```cpp
#include<iostream>
#include<fstream>
#include<iomanip>
#include<vector>
#include<algorithm>
#include<random>


void printIntegersToFile(const std::vector<int>& integers, std::ofstream& output)
{
    for (int tens = 0; tens < 10; tens++)
    {
        for (int ones = 0; ones < 10; ones++)
        {
            output << std::setw(4) << integers[tens * 10 + ones];
        }
        output << "\n";
    }
    output << std::endl;
}


int main()
{
    //Open  first file for output
    std::ofstream fout("output1.txt");
    if (!fout)
    {
        std::cout << "Error opening file!" << std::endl;
        return 0;
    }

    for (int tens = 0; tens < 10; tens++)
    {
        for (int ones = 1; ones <= 10; ones++)
        {
            fout << std::setw(4) << tens*10 + ones;
        }

        fout << "\n";
    }
    fout << std::endl;

    std::cout << "1-100 table written to output1.txt 10 times." << std::endl;

    std::vector<int> vv;
    for (int i = 1; i <= 100; i++)
    {
        vv.push_back(i);
    }

    std::random_device rd;
```

```
53      std::mt19937 gen(rd());
54      std::shuffle(begin(vv), end(vv), gen);
55
56      //Open second file for output
57      std::ofstream vout("output2.txt");
58      if (!vout)
59      {
60          std::cout << "Error opening file!" << std::endl;
61          return 0;
62      }
63
64      printIntegersToFile(vv, vout);
65
66      std::cout << "1-100 table written to output2.txt 10 times." << std::endl;
67
68      return 0;
69  }
```