

```
1  #pragma once
2  #include <vector>
3  //=====
4  // Name      : STL_Containers.h
5  // Author    : Sotheanith Sok
6  // Version   : 1.0
7  // Description : This a header contains all signature of function used to test the STL Container by performing some function.
8  //=====
9
10 class STL_Containers
11 {
12 public:
13     static void generateRandomNumbers(std::vector<int>& v);
14     //Precondition:
15     // _None.
16     //Postcondition:
17     // _Generate 10000 randoms number between 1 and 100 and put it into a vector.
18
19     static void printSortedVector(std::vector<int> v);
20     //Precondition:
21     // _None.
22     //Postcondition:
23     // _Print all value in a vector in sorted order.
24
25     static int calculateSumOfVector(std::vector<int>& v);
26     //Precondition:
27     // _None.
28     //Postcondition:
29     // _Calculate the sum of all values in a vector then return the sum.
30
31     static double calculateAverageOfVector(std::vector<int>& v);
32     //Precondition:
33     // _None.
34     //Postcondition:
35     // __Calculate the average of all values in a vector then return the average.
36
37     static void printFrequency(std::vector<int>& v);
38     //Precondition:
39     // _None.
40     //Postcondition:
41     // __Print the frequency of all values in a listed order.
42 };
43
44
```