```cpp
1  #include <iostream>
2  #include <cmath>
3  #include "Assignment2-Header.h"
4
5
6  int main() {
7      unsigned n;
8
9      // Test
10     std::cout << "Assignment 2.1 - Gaussian Sum:\n";
11     std::cout << "Insert an integer number : ";
12     std::cin  >> n;
13     std::cout << "Gaussian Sum: ";
14     std::cout << Gaussian(n) << "\n\n";
15
16     // Test
17     std::cout << "Assignment 2.2 - Another Sum:\n";
18     std::cout << "Insert an integer number : ";
19     std::cin  >> n;
20     std::cout << "Another Sum: ";
21     std::cout << Another(n) << "\n\n";
22
23     // Test
24     std::cout << "Assignment 2.3.1 - Prime Factorization (loops):\n";
25     std::cout << "Insert an integer number : ";
26     std::cin  >> n;
27     std::cout << "Prime Factorization: ";
28     decomp(n);
29     std::cout << '\n';
30
31     // Test
32     std::cout << "Assignment 2.3.2 - Prime Factorization (Recursive):\n";
33     std::cout << "Insert an integer number : ";
34     std::cin  >> n;
35     std::cout << "Prime Factorization: ";
36     decompRec(n, 2);
37     std::cout << '\n';
38
39     return 0;
40 }
```