

```
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 }
```