```cpp
1  #include <iostream>
2  #include <fstream>
3  #include "Permutations.h"
4  #include "Combinations.h"
5  using namespace std;
6
7  int main()
8  {
9
10     int n, r, choice;
11     cout << "If you want to do a permuatition press 1, if a combination
         press 2, if done with program press 3";
12     cout << endl;
13     cin >> choice;
14     while (choice == 1)
15     {
16         Permutations one;
17         cout << "What is your total number of objects?" << endl;
18         cin >> n;
19         cout << "Ok, now how many objects are taken, what is your r?" <<
             endl;
20         cin >> r;
21         for (int i = 1; i <= r; i++)
22         {
23             cout << "Your calculation is: ";
24             one.calculation(n, i);
25             cout << endl;
26         }
27         cout << "If you want to do another permuatition press 1, if a
             combination press 2, if done with program press 3";
28         cout << endl;
29         cin >> choice;
30     }
31
32     while (choice == 2)
33     {
34         Combinations one;
35         cout << "What is your total number of objects?" << endl;
36         cin >> n;
37         cout << "Ok, now how many objects are taken, what is your r?" <<
             endl;
38         cin >> r;
39         for (int i = 1; i <= r; i++)
40         {
41             cout << "Your calculation is: ";
42             one.calculation(n, i);
43             cout << endl;
44         }
45         cout << "If you want to do another permuatition press 1, if a
```

```cpp
                combination press 2, if done with program press 3";
46          cout << endl;
47          cin >> choice;
48      }
49
50
51      while (choice == 3)
52      {
53          return 0;
54      }
55  }
```