

## header.h

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1 /*****
2 * AUTHOR      :Faris Hijazi
3 * STUDENT ID  :1039438
4 * LAB #12     :Recursion Performance
5 * CLASS      :CS1B
6 * SECTION    :MW: 7:30pm
7 * DUE DATE   :4/30/19
8 *****/
9
10 #ifndef HEADER_H_
11 #define HEADER_H_
12 #include <string>
13 #include <iostream>
14 #include <iomanip>
15 #include <limits>
16 #include <ios>
17 #include <chrono>
18 #include <ctime>
19 using namespace std::chrono;
20 using namespace std;
21
22 enum menu
23 {
24     EXIT,
25     FAC,
26     FIB,
27     FACP,
28     FIBP
29 };
30
31 void PrintHeader(ostream &output,           //output device
32                  char exersize,             //lab or assignment?
33                  string exersizeName,       //lab or assignment name
34                  int num,                   //lab or assignment name
35                  string names);             //names of programmer(s)
36
37 long long factorial(long long num);         //num to calulate factorial of
38
39 long long factorialR(long long num);        //num to calulate factorial of
40
41 string fib(long num);                       //numbers in series to display
42
43 long fibR(long num);                        //number in series to display
44
45 string outputArray(long arr[],             //array to output
46                    int num);               //number of elements to output
47
48 void outputMenu();
49
50 int menuInput();
51
```

header.h

```
52 #endif /* HEADER_H_ */
```