

GetCheckInp.cpp

```
1 /*****
2 * AUTHOR      : Ali Eshghi
3 * STUDENT ID   : 1112261
4 * ASSIGNMENT #4 : Assessing Recursion Performance
5 * CLASS        : CS 1B
6 * SECTION      : MW - 7:30 pm - 9:50 pm
7 * DUE DATE     : 11/26/2019
8 *****/
9
10 #include "MyHeader.h"
11
12 /*****
13 * GetCheckInput
14 *   This function will get the user's option from the menu and
15 *   returns it into the main.
16 *
17 *   - returns nothing -> This will output the menu.
18 *****/
19
20 void GetCheckInp(int &option) //IN & PROCESS - user's input
21 {
22     /*****
23     * VARIABLE *
24     *****/
25
26     bool checkInput; //PROCESS - input checking
27
28     /*****
29     * INITIALIZE *
30     *****/
31
32     checkInput = false;
33
34
35     //do while loop for error checking
36     do
37     {
38         //this function prints menu
39         Menu();
40         cout << "Enter an userOption (0 to exit): ";
41
42         //CHECK INPUT
43         if (!(cin >> option))
44         {
45             cin.clear(); cin.ignore(numeric_limits<streamsize>::max(), '\n');
46             cout << "\n**** Please input a NUMBER between 0 and 5 ****\n";
47             checkInput = false;
48         }
49
50         //CHECK FOR RANGE
51         else if (option > 4 || option < 0)
52         {
53             cout << "\n**** The number " << option
54                  << " is an invalid entry ****\n"
55                  << "**** Please input a number between 0 and 5 ****\n";
```

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56
57     checkInput = false;
58 }
59
60 else
61 {
62     cin.ignore(numeric_limits<streamsize>::max(), '\n');
63     checkInput = true;
64 }
65
66 } while (!checkInput);
67
68 }
69
70
71
```