```
#include <iostream>
// for srand function
#include <stdlib.h>
// for time function
#include <ctime>
// for set precision function
#include <iomanip>
#include "header.h"
using namespace std;
int main(void)
   // Initialize random number generator
   srand((unsigned)time(NULL));
   cout << "\nRandom number between 0 and 27 (27, exclusive): " <<</pre>
GetRandomNum(27);
   cout << "\nRandom number between 3 and 73 (3 and 73 exclusive): " <<</pre>
GetRandomNum(3, 73);
     cout << "\nRandom number between 0.000 and 1.000: " << setprecision(3) <<</pre>
GetRandomNum();
   cout << endl;</pre>
   system("pause");
   return 0;
}
****** FUNCTIONS.CPP
******************
// for rand function
```

```
#include <stdlib.h>
// for time function
#include <ctime>
#include "header.h"
int GetRandomNum(int m)
   // generates a random int between 0 and (m - 1)
   int random number = rand() % m;
   return random_number;
}
int GetRandomNum(int i, int j)
   // generates a random int between (i + 1) and (j - 1)
   int random_number = (i + 1) + (rand() \% (j - i - 1));
   return random_number;
}
double GetRandomNum()
   // both rand() and RAND_MAX return ints so we need to cast at least one of them
to a double to get a double
   double random_double = (double)rand() / RAND_MAX;
   return random_double;
}
******* HEADER.H
*******************
#ifndef _HEADER_H_
#define _HEADER_H_
int GetRandomNum(int);
int GetRandomNum(int, int);
double GetRandomNum();
```