* **NO CHEATING!** You get an “F” without discussion if you do.
* Your name must be included in the project name.
* Delete the **debug folders**, the .sdf file, and the ipch folder before you submit.
* Copy and paste your folder into the Homework & Exam folder named “**Mid2**”.
* **Your program must be compiled to get any credit.**
* **Turn in this paper with your name filled.**
* **No question will be answered once the test starts.**

Write a C program to

1. Generate a random number ***n*** in the range of [6, 10] (including 6 and 10) and print out the number ***n*** (2 points)

2. Develop a recursive function with input parameter ***n*** and returns the value of



The main function shall call this function with ***n*** being the number generated in step 1, and print out the returned value. (5 points. No credit will be given if it is NOT a recursive function)

3. Develop another recursive function with input parameter ***n*** and returns the value of



This function **MUST** call the previous function developed in step 2 for the dashed part. (3 points)

The main function shall call this function with ***n*** being the number generated in step 1, and print out the returned value. (5 points. No credit will be given if it is NOT a recursive function)