EE 1910

Dr. Johnson

Program 13

No capabilities beyond those discussed in class or in the notes are allowed

Write a program to rotate an n x n integer array counter-clockwise by 90 degrees. Print the original and rotated array values. Use the following function prototypes:

```
void readArray(int n, int the_ary[][n]);
void rotateArray(int n, int the_ary[][n]);
void printArray(int n, const int the_ary[][n]);
```

Your program must work for any value of n

Run the program for a 5x5 array as shown below

End up with something like this

```
HW_Cons_project.exe [C/C++ Application] Z:\msoe_currer
                                                                Your name
Programming HW 1
Welcome to Dr Johnson's 2d array program
Please enter the size for your n x n array, n = 5
Please enter the numbers for row 0: 1 2 3 4 5
Please enter the numbers for row 1: 6 7 8 9 10
Please enter the numbers for row 2: 11 12 13 14 15
Please enter the numbers for row 3: 16 17 18 19 20
Please enter the numbers for row 4: 21 22 23 24 25
Your entered array is:
                               5
                               10
               13
                               15
               18
                                20
Your rotated array is:
                                25
               13
                                22
```