Name your program **hw3.cpp**. Program must be able to compile or you will get at most 1 out 3 points for the assignment.

Write **one single** complete C++ program to do all three sections below:

**Part A:** Submit your work for question 2 in lab08.

**Part B:** Submit your work for question 4 in lab09.

**Part C:**

I. The program asks user to enter a positive **odd** integer $8 < num < 20$. If the input value is incorrect, the program repeatedly force user to input values until $num$ is within the expected value.

II. The program then prints the following diagram:

(For example, if the user enters 9 for n, the output is as follows:)

```
* & *
* & *
* & *
* & *
* & *
xxxx*++++
* & *
* & *
* & *
* & *
```