CS111

Homework 5

1. Use nested for loops to write a 10X10 multiplication table.

```
      1   2   3   4   5   6   7   8   9  10
--------------------------------
 1|  1   2   3   4   5   6   7   8   9  10
 2|  2   4   6   8  10  12  14  16  18  20
 3|  3   6   9  12  15  18  21  24  27  30
 4|  4   8  12  16  20  24  28  32  36  40
 5|  5  10  15  20  25  30  35  40  45  50
 6|  6  12  18  24  30  36  42  48  54  60
 7|  7  14  21  28  35  42  49  56  63  70
 8|  8  16  24  32  40  48  56  64  72  80
 9|  9  18  27  36  45  54  63  72  81  90
10| 10  20  30  40  50  60  70  80  90 100
```


2. Write a complete C++ program that does the following.

   1. It asks the user to enter an odd positive integer.
   2. The program reads a value n entered by the user. If the value is not legal, the program terminates.
   3. The program prints an n × n grid displaying a large letter X. The line going from left to right should be made with the character x, the line going from right to left should be made with the character +, and the very center should be an *.

   For example, if the user enters 7 for n the program should print the following picture.

```
   x       +
    x     +
     x   +
      *
     +   x
    +     x
   +       x
```