Sources : <https://www.youtube.com/watch?v=3kUpOvK6QT8&t=938>

#include <iostream>  
using namespace std;  
  
int main() {  
 int n ;  
 cout << "Enter an integer between 2 and 25: ";  
 cin >> n;  
 if (n>=2 && n<=25){  
  
  
  
 for (int rows = 1; rows <= n; rows++) { // This goes through rows from 1 to 5  
 for (int column = rows; column <= n; column++) { //goes through column but in a disending order. so prints the biggest number of n. to the smallest.  
 cout << " ";  
 }  
 for (int star = 1; star < rows; star++) { //here we have to use < sign because we want a pointy star.  
 cout << "\*";  
 }  
 for (int star = 1; star <= rows; star++) {  
 cout << "\*";  
 }  
 cout << endl;  
 }  
  
 cout << endl;  
 for (int rows = 1; rows <= n; rows++) {  
 for (int space = rows; space <= n; space++) { //prints spaces based on the n number on input.  
 cout << " ";  
 }  
 for (int col = 1; col <= rows; col++) {  
 cout << "\*";  
 }  
 cout << endl;  
 }  
 for (int rows = 1; rows <= n; rows++) {  
 for (int space = 1; space <= rows; space++) {  
 cout << " ";  
 }  
 for (int star = rows; star <= n; star++) {  
 cout << "\*";  
 }  
  
 cout << endl;  
 }  
  
  
 cout << endl;  
 for (int rows = 1; rows <= n; rows++) {  
 for (int space = 1; space <= rows; space++) {  
 cout << " ";  
 }  
 for (int col = rows; col <= n; col++) {  
 cout << "\*";  
 }  
 for (int col = rows; col < n; col++) {  
 cout << "\*";  
 }  
  
 cout << endl;  
 }  
 cout << endl;  
 for (int rows = 1; rows <= n; rows++) {  
 for (int star = 1; star <= rows; star++) {  
 cout << "\*";  
 }  
 for (int space = rows; space <= n; space++) {  
 cout << " ";  
 }  
 cout << endl;  
 }  
 for (int rows = 1; rows <= n; rows++) {  
 for (int star = rows; star <= n; star++) {  
 cout << "\*";  
 }  
 cout << endl;  
 }  
  
  
 }else{  
 while(not (n>=2 && n<=25)){  
 cout << "Enter an integer between 2 and 25: ";  
 cin >> n; }  
  
 for (int rows = 1; rows <= n; rows++) { // This goes through rows from 1 to 5  
 for (int column = rows; column <= n; column++) { //goes through column but in a disending order. so prints the biggest number of n.  
 cout << " ";  
 }  
 for (int star = 1; star < rows; star++) { //here we have to use < sign because we want a pointy star.  
 cout << "\*";  
 }  
 for (int star = 1; star <= rows; star++) {  
 cout << "\*";  
 }  
 cout << endl;  
 }  
  
 cout << endl;  
 for (int rows = 1; rows <= n; rows++) {  
 for (int space = rows; space <= n; space++) {  
 cout << " ";  
 }  
 for (int col = 1; col <= rows; col++) {  
 cout << "\*";  
 }  
 cout << endl;  
 }  
 for (int rows = 1; rows <= n; rows++) {  
 for (int space = 1; space <= rows; space++) {  
 cout << " ";  
 }  
 for (int star = rows; star <= n; star++) {  
 cout << "\*";  
 }  
  
 cout << endl;  
 }  
  
  
 cout << endl;  
 for (int rows = 1; rows <= n; rows++) {  
 for (int space = 1; space <= rows; space++) {  
 cout << " ";  
 }  
 for (int col = rows; col <= n; col++) {  
 cout << "\*";  
 }  
 for (int col = rows; col < n; col++) {  
 cout << "\*";  
 }  
  
 cout << endl;  
 }  
 cout << endl;  
 for (int rows = 1; rows <= n; rows++) {  
 for (int star = 1; star <= rows; star++) {  
 cout << "\*";  
 }  
 for (int space = rows; space <= n; space++) {  
 cout << " ";  
 }  
 cout << endl;  
 }  
 for (int rows = 1; rows <= n; rows++) {  
 for (int star = rows; star <= n; star++) {  
 cout << "\*";  
 }  
 cout << endl;  
 }  
 }  
}

