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/*
  File: oval.cpp
  Created by: Tan Qi Hao
  Creation Date: 2/21/2019
  Synopsis: This program used * to print an oval.
*/

#include <iostream>
#include <cmath>
using namespace std;

int main()
{
  int noMidrow; // number of * in the middle row.
  int noab_blrow; // number of rows above and below the middle row.

  cout << "Enter size of the middle row: ";
  cin >> noMidrow;

  while (noMidrow < 3){
      cout << "Size of the middle row must be at least three." << endl;
      cout << "Enter size of the middle row again: ";
      cin >> noMidrow;}

    cout << "Enter number of rows: ";
    cin >> noab_blrow;

    while (noab_blrow < 0 || (noMidrow - 2 * noab_blrow) < 2){
      cout << "Invalid number of rows. " << endl;
      cout << "Enter number of rows again: ";
      cin >> noab_blrow;}

    cout << endl;

    int i(0),i1(0),i2(0);/* The loop variable for the loop before the
middle row                              i is for setting up the number of
row.
                                  i1 is for setting up the number of space.
                                  i2 is for setting up the number of *.
                               */

    int j(0);  //The loop variable for the middle row.

    int k(0),k1(0),k2(0); /*The loop variable for the loop after the
middle row
                                  k is for setting up the number of row.
                                  k1 is for setting up the number of space.
                                  k2 is for setting up the number of *.
                                */

    for (i = noab_blrow; i >= 1; i--){

      for (i1 = i; i1 >= 1; i1--){
      cout << " ";
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      }

      for (i2 = noMidrow - 2 * i; i2 >= 1; i2--){
      cout << "*";
      }
      cout << endl;
    }


    for (j = 1; j <= noMidrow; j++){
      cout << "*";}

 cout << endl;

    for (k = 1; k <= noab_blrow; k++){

      for (k1 = 1; k1 <= k; k1++){
      cout << " ";
      }

      for (k2 = 1; k2 <= noMidrow - 2 * k; k2++){
      cout << "*";
      }

      cout << endl;}


  return 0;
}
```