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/*****************************
       Author:
                              Jessica Schuler
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       Filename:
                              greatProd.cpp
       Overview:
             This program gets user command line input and fills an array
             with random numbers. The array will then be searched for
             tetris shapes and the shape with the greatest product will
             be identified.
       Input:
             The user inputs the desired number of rows and columns for
             the randomly generated array.
             The program will identify the location, shape, and product
             of the shape with the greatest product.
#include<iostream>
#include<ctime>
#include<cstdlib>
using namespace std;
void get_info(int &rows, int &cols);
void fill array(int rows, int cols);
int main (int argc, char *argv[])
{
   int rows=0,cols=0;
   rows = atoi(argv[1]);
   cols = atoi(argv[2]);
   get_info(rows, cols);
       fill_array(rows, cols);
   return 0;
}
//Function to get user input and validate input
void get_info(int &rows, int &cols) {
       if(rows<4){
          cout<<"Enter a number 4 or higher rows!!";</pre>
          cin>>rows;}
           if(cols<4){
          cout<<"Enter a number 4 or higher for columns!!";</pre>
          cin>>cols;}}
//Function to fill the array with random numbers
void fill_array(int rows, int cols){
    srand(time(0));//Random seed generator for random #'s
   int** arr_grid = new int*[rows];//allocates a 2-d array
   for(int i = 0; i < rows; i++) {</pre>
      arr_grid[i]= new int[cols]; }
   for(int i = 0; i < rows; i++) { //fills the array w/random #'s</pre>
       for(int j = 0; j < cols; j++) {</pre>
           arr\_grid[i][j] = rand()\%99 + 0;}
   for(int i=0; i<rows; i++) \{ //output the array
           for(int j=0; j<cols; j++) {</pre>
           cout<<arr_grid[i][j]<<" "; }</pre>
       cout<<endl; }</pre>
   for(int i=0; i<rows; i++) { //delete the array</pre>
       delete [] arr_grid[i]; }
   delete [] arr_grid; }
```