/\*\*

\* Nested loops problem set.

\*

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\* @version 1.0 (10/31/11

\*/

public class nestedLoopsProgs

{

/\*\*

\* Constructor for objects of class nestedLoopsProgs

\*/

public nestedLoopsProgs()

{

}

/\*\*

\* Passes an integer, n, then prints a square containing all the integers frmo 1 to n.

\*/

public void printSquare(int n)

{

System.out.println("\f");

for(int i=1;i<=n;i++)

{

for(int a=1;a<=n; a++)

{

System.out.print(a + " ");

}

System.out.println();

}

}

/\*\*

\* 6 colums wide with rows dependent on x. #2A

\*/

public void printColumnsA(int n)

{

System.out.print("\f");

for(int i=1;i<=n;i++)

{

for(int a=1;a<=6;a++)

{

System.out.print("X");

}

System.out.println();

}

}

/\*\*

\* 6 rows long with columns dependent on x. #2B

\*/

public void printColumnsB(int n)

{

System.out.print("\f");

for(int i=1;i<=6;i++)

{

for(int a=1;a<=n;a++)

{

System.out.print("X");

}

System.out.println();

}

}

/\*\*

\* Prints the height and width entered by user with Xs #2C

\*/

public void printColumnsC(int w, int h)

{

System.out.print("\f");

for(int i=1;i<=h;i++)

{

for(int a=1;a<=w;a++)

{

System.out.print("X");

}

System.out.println();

}

}

/\*\*

\* Takes a number, n, and prints out the numbers 1 - n diagonolly.

\*/

public void diagonol(int n)

{

System.out.print("\f");

for(int i=1;i<=n;i++)

{

for(int a=1;a<i;a++)

{

System.out.print("\_");

}

System.out.println(i);

}

}

/\*\*

\* 4 methods that point a triangle in different ways. i don't know how i'm going to do this one X\_X

\* Day 1: Some progress

\* Day 2: No Progress

\* Day 3: No progress

\* Day 3.5: Restart

\* Day 3.75: Peter makes a miracle.

\* Day 4: Dylan refines the code ;)

\*/

public void pointDown(int n)

{

System.out.print("\f");

if (n%2==0)

{

System.out.println("Invalid number");

}

else

{

for (int i=n;i>0;i-=2)

{

for (int j=(n-i)/2;j>0;j--)

{

System.out.print("-");

}

for (int k=0;k<i;k++)

{

System.out.print("#");

}

System.out.println();

}

}

}

/\*\*

\* PointUp

\*/

public void pointUp(int n)

{

System.out.print("\f");

if (n%2==0)

{

System.out.println("Invalid number");

}

else

{

for (int i=n;i>=1;i-=2)

{

for (int a=i;a>=1;a-=2)

{

System.out.print("-");

}

for (int q=n;q>=i;q-=1)

{

System.out.print("#");

}

System.out.println();

}

}

}

/\*\*

\* PointLeft

\*/

public void pointLeft(int n)

{

System.out.print("\f");

if (n%2==0)

{

System.out.println("Invalid number");

}

else

{

for (int i=n;i>=1;i-=2)

{

for (int a=i;a>=2;a-=1)

{

System.out.print("-");

}

for (int q=n;q>=i;q-=1)

{

System.out.print("#");

}

System.out.println();

}

for (int i=n;i>1;i-=2)

{

for (int a=(n+1);a>=i;a--)

{

System.out.print("-");

}

for (int q=1;q<=(i-2);q++)

{

System.out.print("#");

}

System.out.println();

}

}

}

/\*\*

\* Point Right (finally)

\*/

public void pointRight(int n)

{

System.out.print("\f");

if (n%2==0)

{

System.out.println("Invalid number");

}

else

{

for(int i=n;i>=1;i-=2)

{

for (int q=n;q>=i;q--)

{

System.out.print("#");

}

System.out.println();

}

for(int i=n;i>=1;i-=2)

{

for(int q=(i-1);q>=2;q--)

{

System.out.print("#");

}

System.out.println();

}

}

}

}