**Hollow Patterns**

**Question 1:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Hollow Pattern?

If Input is 5 then Print

\* \* \* \* \*

 \*     \*

  \*   \*

   \* \*

    \*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value.

Output        :- Print the Hollow Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

\* \* \* \* \*

 \*     \*

  \*   \*

   \* \*

    \*

Input 2  :    -3

Output 2:    Invalid Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[]args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

System.out.print("Invalid Input");

}

else

{

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

{

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

{

System.out.print(" ");

}

for(int j=0;j<n-i;j++)

{

if(i == 0||j== n-i-1||j ==0)

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

else

System.out.print(" ");

}

System.out.println();

}

}

}

}

**Question 2:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Basic Pattern?

If Input is 4(Rows) and 6(Columns) then Print

\* \* \* \* \* \*

\*         \*

\*         \*

\* \* \* \* \* \*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

                     Second Line of Input Consists of One Integer Value ( Columns ).

Output        :- Print the Rectangle Pattern.

Constraints  :- Given Inputs Must be Greater than Zero or Else Print **"Invalid Inputs"**.

**Example:**

Input 1  :

4

6

Output 1:

\* \* \* \* \* \*

\*         \*

\*         \*

\* \* \* \* \* \*

Input 2  :

3

0

Output 2: Invalid Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class H

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int a=sc.nextInt();

if(a<=0 || n<=0)

{

System.out.print("Invalid Inputs");

}

else

{

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

{

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

{

if(i==1 || i==n || j==1 || j==a)

{

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

}

else

{

System.out.print(" ");

}

}

System.out.println();

}

}

}

}

**Question 3:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Hollow Pattern?

If Input is 5 then Print

    \*

   \* \*

  \*   \*

 \*     \*

\* \* \* \* \*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value.

Output        :- Print the Hollow Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

    \*

   \* \*

  \*   \*

 \*     \*

\* \* \* \* \*

Input 2  :    -3

Output 2:    Invalid Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

System.out.print("Invalid Input");

}

else

{

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

{

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

{

System.out.print(" ");

}

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

{

if(j==1|| j==i || i==n)

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

else

System.out.print(" ");

}System.out.println();

}

}

}

}

**Question 4:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Hollow Pattern?

If Input is 5 then Print

\* \* \* \* \*

  \*     \*

    \*   \*

      \* \*

        \*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value.

Output        :- Print the Hollow Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

\* \* \* \* \*

  \*     \*

    \*   \*

      \* \*

        \*

Input 2  :    -3

Output 2:    Invalid Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[]args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

System.out.print("Invalid Input");

}

else{

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

{

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

{

if(i==1||i==j||j==n)

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

else

System.out.print(" ");

}

System.out.println();

}

}

}

}

**Question 5:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Hollow Pattern?

If Input is 5 then Print

\*

\* \*

\*  \*

\*   \*

\*    \*

\*   \*

\*  \*

\* \*

\*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value.

Output        :- Print the Hollow Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

\*

\* \*

\*  \*

\*   \*

\*    \*

\*   \*

\*  \*

\* \*

\*

Input 2  :    -3

Output 2:    Invalid Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

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

{

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

{

if(j==1||i==j)

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

else

System.out.print(" ");

}

System.out.println();

}

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

{

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

{

if(j==1||j==i)

{

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

}

else{

System.out.print(" ");

}

}

System.out.println();

}

}

}

}

**Question 6:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Hollow Pattern?

If Input is 5 then Print

\* \* \* \* \*

\*     \*

\*   \*

\* \*

\*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value.

Output        :- Print the Hollow Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

\* \* \* \* \*

\*     \*

\*   \*

\* \*

\*

Input 2  :    3

Output 2:

\* \* \*

\* \*

\*

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[]args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

System.out.print("Invalid Input");

}

else

{

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

{

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

{

if(i==n||j==1||j==i)

{

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

}

else{

System.out.print(" ");

}

}

System.out.println();

}

}

}

}

**Question 7:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Hollow Pattern?

If Input is 5 then Print

        \*

      \* \*

    \*   \*

  \*     \*

\* \* \* \* \*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value.

Output        :- Print the Hollow Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

        \*

      \* \*

    \*   \*

  \*     \*

\* \* \* \* \*

Input 2  :    -3

Output 2:    Invalid Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

System.out.print("Invalid Input");

}

else{

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

{

for(int j=1;j<=n;j++){

if(j==n||i==n||j==n-i+1)

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

else

System.out.print(" ");

}

System.out.println();

}

}

}

}

**Question 8:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Pattern?

If Input is 5 then Print

\*

\* \*

\*   \*

\*     \*

\* \* \* \* \*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value.

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

\*

\* \*

\*   \*

\*     \*

\* \* \* \* \*

Input 2  :    3

Output 2:

\*

\* \*

\* \* \*

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[]args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

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

{

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

{

if(j==1||i==j||i==n)

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

else

System.out.print(" ");

}

System.out.println();

}

}

}

}

**Question 9:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Hollow Pattern?

If Input is 5 then Print

\* \* \* \* \*

\*       \*

\*       \*

\*       \*

\* \* \* \* \*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows & Columns ).

Output        :- Print the Square Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

\* \* \* \* \*

\*       \*

\*       \*

\*       \*

\* \* \* \* \*

Input 2  :    3

Output 2:

\* \* \*

\*   \*

\* \* \*

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[]args)

{

//Write your code here.

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

System.out.print("Invalid Input");

}

else

{

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

{

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

{

if(i==1 || i==n || j==1 || j==n)

{

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

}

else

System.out.print(" ");

}

System.out.println();

}

}

}

}

**Question 10:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the following Basic Pattern?

If Input is 4 then Print

01 02 03 04

05       06

07       08

09 10 11 12

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows & Columns ).

Output        :- Print the Square Pattern.

Constraints  :- Given Input Must be Greater than Zero or Else Print **"Invalid Input"**.

**Example:**

Input 1  :    5

Output 1:

01 02 03 04

05       06

07       08

09 10 11 12

Input 2  :    -3

Output 2:    Invalid Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[]args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

System.out.print("Invalid Input");

}

else{

int c=1;

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

{

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

{

if(i==1||i==n||j==1||j==n)

{

System.out.printf("%02d ",c);

c++;

}

else{

System.out.print(" ");

}

}

System.out.println();

}

}

}

}