1.\*

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import java.util.\*;

class Main{

public static void main(String[] a){

int[] nums={0,1,2,3,4};

int[] index={0,1,2,2,1};

int[] target=new int[nums.length];

ArrayList al=new ArrayList();

for(int i=0;i<nums.length;i++){

al.add(index[i],nums[i]);

}

for(int i=0;i<al.size();i++){

System.out.print(al.get(i)+" ");

}

}

}

2.\*

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package pattern; import java.util.\*; public class test {

public static void main(String[] args) {

// TODO Auto-generated method stub Scanner pk=new Scanner(System.in); int n=pk.nextInt();

for(int row=0;row<n;row++) {

for(int col=row;col<n-1;col++) { System.out.print(" ");

}

for(int col=0;col<=row;col++) { System.out.print("\*");

}

System.out.println();

} }}

package pattern;

import java.util.Scanner; public class test1 {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in); System.out.print("Enter the number of rows: ");

int n = scanner.nextInt();

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

System.out.print(" ".repeat(n - row)); System.out.println("\*".repeat(row));

} scanner.close();

}}

3.\*

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import java.ul.\*;

public class PaernEg {

// Funcon to demonstrate paern public stac void printPaern(int n) { int i, j;

// outer loop to handle rows for (i = 0; i < n; i++) {

// inner loop to print spaces. for (j = n - i; j > 1; j--) {

System.out.print(" "); }

// inner loop to print stars. for (j = 0; j <= i; j++) {

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

// prinng new line for each row System.out.println();

}

}

// Driver Funcon

public stac void main(String args[]) { int n = 6;

printPaern(n);

}

}

4.\*

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import java.util.Scanner;

public class Main

{

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

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

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

System.out.print(" ");

for(int j=1;j<=(2\*i-1);j++){

if(j==1||j==(2\*i-1))

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

else

System.out.print(" ");

}

System.out.println();

}

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

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

System.out.print(" ");

for(int j=1;j<=(2\*i-1);j++){

if(j==1||j==(2\*i-1))

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

else

System.out.print(" ");

}

System.out.println();

}

}

}

5.\*

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import java.util.Scanner;

public class Main

{

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

System.out.println("Enter the number:");

int n=s.nextInt();

int a=1;

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

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

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

a=a+1;

}

System.out.println();

}

}

}

6.1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

**import java.util.Scanner;**

**public class Main**

**{**

**public static void main(String[] args) {**

**Scanner s = new Scanner(System.in);**

**System.out.println("Enter the number:");**

**int n=s.nextInt();**

**int a=1;**

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

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

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

**a=a+1;**

**}**

**System.out.println();**

**}**

**}**

**}**

7.\*\*\*\*

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import java.util.Scanner;

public class Main

{

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the stars in each side of square: ");

int sideSize = sc.nextInt();

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

{

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

{

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

{

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

}

}

8.1

212

32123

4321234

32123

212

1

public class Main{

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n = sc.nextInt();

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

for (int j = n; j > i; j--) {

System.out.print(" ");

}

for (int k = i; k >= 1; k--) {

System.out.print(k+” “);

}

for (int l = 2; l <= i; l++) {

System.out.print(l+” ”);

}

System.out.println();

}

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

for (int j = n; j > i; j--) {

System.out.print(" ");

}

for (int k = i; k >= 1; k--) {

System.out.print(k+” “);

}

for (int l = 2; l <= i; l++) {

System.out.print(l+” ”);

}

System.out.println();

}

}

}

9.1 1

12 21

123 321

12344321

import java.util.\*;

class Main12{

public static void main(String[] args){ Scanner sc-new Scanner(System.in);

int nesc.nextInt();

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

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

if(j<=1){

System.out.print(j);

}

else{ System.out.print(" ");

}

for(int j=n;j>=1;j--){

if(j<=1){

System.out.print(j);

else System.out.print(" "); }

System.out.println();

}

10.1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

public class Main {

public static void main(String[] args)

{

int i,j,n;

System.out.print("Input number of rows : ");

Scanner in = new Scanner(System.in);

n = in.nextInt();

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

{

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

System.out.print(j);

System.out.println("");

}

}

}

11.\*\*\*\*\*\*\*\*\*

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import java.util.\*;

class Main {

public static void pattern(int n) { for (int i = n; i >= 1; i -= 2) {

for (int k = n; k > i; k -= 2) { System.out.print(" ");

}

for (int j = 1; j <= i; j++) { System.out.print("\*");

}

System.out.println();

}

}

public static void main(String[] args) { Scanner sc = new Scanner(System.in); int n = sc.nextInt();

pattern(n);

}

}

12.\* \* \* \* \*

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public class Main{

public static void main(String[] args) {

int n=5;

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

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

System.out.print(" ");

}

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

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

}

System.out.println();

}

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++){

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

}

System.out.println();

} } }

13.\*

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\*\*\*

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public class PrintPattern {

public static void printPattern(int n) {

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

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

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

}

System.out.println();

}

}

public static void main(String[] args) {

printPattern(5);

}

}

14.\*

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PROGRAM

public class Main

{public static void main(String[] args) { int n=5;

for(int row=0;row<n-1;row++){ for(int col=row;col<=n-1;col++){ } System.out.print(" ");

for(int col=0;col<=row;col++){ } System.out.print("\* ");

} System.out.println();

for(int row=0;row<n;row++){ for(int col=0;col<=row;col++){ } System.out.print(" ");

for(int col=row;col<=n-1;col++){ } System.out.print("\* ");

} System.out.println(); }

15.1

0 1

1 0 1

0 1 0 1

1 0 1 0 1

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int n=s.nextInt();

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

{

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

{

if(i%2!=0 && j%2!=0)

System.out.print("1 ");

else if(i%2==0 && j%2==0)

System.out.print("1 ");

else

System.out.print("0 ");

}System.out.println();

}

}

}

16.1 1 1 1 1 1

2 2 2 2 2

3 3 3 3

4 4 4

5 5

6

public class PatternPrint {

public static void main(String[] args) {

for(inti=1;i<=6;i++){ for(intj=1;j<=7-i;j++){

System.out.print(i + " "); }

System.out.println(); }

} }

17.\* \*

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\* \* \*

public class Main

{

public static void main(String[] args)

{

int n=3;

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

{

for(int j=1;j<=(2\*n-1);j++)

{

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

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

else

System.out.print(" ");

}

for(int j=2;j<=(2\*n-1);j++)

{

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

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

else

System.out.print(" ");

}

System.out.println();

}

}

}