BUTTERFLY PROGRAM

public class Main {  
 public static void main(String[] args){  
 int n=4;  
 for(int i=1;i<=n;i++){  
 System.*out*.println("\*".repeat(i)+" ".repeat(2\*(n-i))+"\*".repeat(i));  
 }  
 for(int i=3;i>=1;i--){  
 System.*out*.println("\*".repeat(i)+" ".repeat(2\*(n-i))+"\*".repeat(i));  
 }  
 }  
}

OUTPUT:

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PATTERN PROGRAM:

public class pattern {  
 public static void main(String[] args)  
 {  
 int n=8;  
 for (int i=1;i<=n;i++){  
 if(i<=3){  
 System.*out*.print(" ");  
 for (int j=1;j<=i;j++)  
 System.*out*.print("\* ");  
 System.*out*.println(" ");  
 }  
 else if(i==4)  
 {  
 System.*out*.println(" \* \* \*");  
 }  
 else if(i==5)  
 {  
 System.*out*.println(" \* \* \*");  
 }  
 else {  
 System.*out*.print(" ");  
 for (int j=1;j<=(n-i+1);j++)  
 {  
 System.*out*.print("\* ");  
 }  
 System.*out*.println(" ");  
 }  
 }  
 }  
}

OUTPUT:

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