import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.println("enter n: ");

int n = input.nextInt();

int space = n - 1;

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

{

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

System.out.print(" ");

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

{

if(i>(n+1)/2)

{

if (j>(n+1)/2&&j<=(2\*i-1-((n+1)/2)))

System.out.print(" ");

else

System.out.print("1");

}

else

System.out.print("1");

}

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

space--;

}

space = 1;

for (int i = n-1; i > 0; i--)

{

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

System.out.print(" ");

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

{

if(i>(n+1)/2)

{

if (j>(n+1)/2&&j<=(2\*i-1-((n+1)/2)))

System.out.print(" ");

else

System.out.print("1");

}

else

System.out.print("1");

}

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

space++;

}

}

}