1. Write a program to print the following pattern

Sample Input

5

Sample Output

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A |  |  |  |  |  |  |  | A |
| A | B |  |  |  |  |  | B | A |
| A | B | C |  |  |  | C | B | A |
| A | B | C | D |  | D | C | B | A |
| A | B | C | D | E | D | C | B | A |
|  |  |  |  |  |  |  |  |  |

import java.util.\*;

public class pro19 {

    public static void main(String args[]) {

        int len = new java.util.Scanner(System.in).nextInt();

        char s1[] = new char[len];

        for (int i = 0; i < len; i++)

            s1[i] = (char) ('A' + i);

        int count = 1;

        String inter = new String("A");

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

            char s2[] = new char[count];

            if (i == len)

                System.out.printf("%-" + len + "." + (i) + "s" + "%s" + "\n", new String(s1), inter);

            else {

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

                    s2[i - j - 1] = (char) ('A' + j);

                inter = new String(s2);

                System.out.printf("%-" + len + "." + i + "s" + " ".repeat(len - i - 1) + "%s" + "\n", new String(s1),

                        inter);

            }

            if (i != len - 1)

                count++;

        }

    }

}

/\*

 \* output:

 \* 5

 \* A A

 \* AB BA

 \* ABC CBA

 \* ABCD DCBA

 \* ABCDEDCBA

 \*/

1. Write a program to print the following pattern

Sample Input

5

Sample Output

| A |  |  |  |  |  |  |  | A |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B |  |  |  |  |  | B |  |
|  |  | C |  |  |  | C |  |  |
|  |  |  | D |  | D |  |  |  |
|  |  |  |  | E |  |  |  |  |

import java.util.Scanner;

public class pro20 {

    public static void main(String args[]) {

        int len = new java.util.Scanner(System.in).nextInt();

        char c[] = new char[len];

        for (int i = 0; i < len; i++)

            c[i] = (char) ('A' + i);

        int index = 0;

        for (int i = 0; i < len; i++) {

            if (i == len - 1)

                System.out.println(" ".repeat(i) + c[index]);

            else

                System.out.println(" ".repeat(i) + c[index] + " ".repeat((len - i) \* 2 - 3) + c[index++]);

        }

    }

}

/\*

 \* output:

 5

A       A

 B     B

  C   C

   D D

    E

 \*/