Problem 3:

import java.util.Scanner;

class T

{

public static void main (String args[])

{

System.out.println("\n 1- Display a right-angle triangle of ones \n 2- display a palindrome Trianle \n 3- Help \n 4- Exit ");

int ch;

int i;

int num;

Scanner u=new Scanner (System.in);

System.out.println("Enter your choice: ");

ch=u.nextInt();

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

num=u.nextInt();

if(ch==3){

System.out.println("A palindromic Triangle is a triangle array of numbers where each row forms a palindrome");

System.out.println("The first few lines of a palindromic Triangle are:");

System.out.println("1");

System.out.println("11");

System.out.println("121");

System.out.println("12321");

System.out.println("1234321");

System.out.println("You can use this pattern to draw a plaindromic Triangle for any number of lines");

}

if(ch==4){

System.out.println("Existing program");

}

{

for (i=0; i<num; i++)

if(ch==1)

System.out.println("\n 1 \n 1 1 \n 1 1 1 ");

else if(ch==2)

System.out.println("\n 1 \n 11 \n 121 \n 12321 \n 1234321");

}

for(i=0; i<num+1; i++)

if(ch==1)

System.out.print("1");

else if(ch==2)

System.out.print("1 11 121 12321 1234321");

{

}

}

}