package magicsquare;

import java.util.Scanner;

public class MagicSquare {

public static void main(String[] args) {

of();

}

public static void of(){

Scanner sc = new Scanner(System.in);

System.out.print("Give an odd number: ");

int n = sc.nextInt();

if (n % 2 == 0){

System.out.println("It's an Even Number, Pls input the right number\n");

of();

}else{

int a = n\*(n\*n+1)/2;

System.out.println("Sum of each row or column "+a);

System.out.println("\n======Magic Square======\n");

int[][] magicSquare = new int[n][n];

int number = 1;

int row = 0;

int column = n / 2;

int curr\_row;

int curr\_col;

while (number <= n \* n) {

magicSquare[row][column] = number;

number++;

curr\_row = row;

curr\_col = column;

row -= 1;

column += 1;

if (row == -1) {

row = n - 1;

}

if (column == n) {

column = 0;

}

if (magicSquare[row][column] != 0) {

row = curr\_row + 1;

column = curr\_col;

if (row == -1) {

row = n - 1;

System.out.printf("%6d", a);

}

}

}

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

for (int j = 0; j < magicSquare.length; j++) {

System.out.printf("%6d", magicSquare[i][j]);

}

System.out.printf("%6d",a);

System.out.println();

}

for(int g=0 ;g <=magicSquare.length; g++){

System.out.printf("%6d",a);

}

}

firsst();

}public static void firsst() {

Scanner sc = new Scanner(System.in);

System.out.println("\n\nWould you like to try again??\n"

+ "[1] Yes\n"

+ "[2] No");

int ans = sc.nextInt();

switch(ans){

case 1:

of();

break;

default:

System.out.println("Thank you have a nice day");

System.exit(0);

break;

}

}

}