## Day of Week

package Arrays;

import java.util.Scanner;

public class ArraysPrep {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int day = Integer.parseInt(scanner.nextLine());

String[] days = new String[]{"Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"};

if (day >= 1 && day <= 7) {

System.out.println(days[day - 1]);

}else {

System.out.println("Invalid day!");

}

}

}

## Print Numbers in Reverse Order

package Arrays;

import java.lang.reflect.Array;

import java.util.Arrays;

import java.util.Scanner;

public class ArraysPrep {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int arr = Integer.parseInt(scanner.nextLine());

int[] array = new int[arr];

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

array[i] = Integer.parseInt(scanner.nextLine());

}

for (int i = array.length - 1; i >= 0; i--) {

System.out.print(array[i]+" ");

}

}

}

## Sum Even Numbers

package Arrays;

import java.util.Arrays;

import java.util.Scanner;

public class ArraysPrep {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int[] numbers = Arrays.stream(scanner.nextLine().split(" ")).mapToInt(Integer::parseInt).toArray();

int sum = 0;

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

if (numbers[i]%2==0){

sum+=numbers[i];

}

}

System.out.println(sum);

}

}

## Reverse an Array of Strings

package Arrays;

import java.util.Arrays;

import java.util.Scanner;

public class ArraysPrep {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

String input = scanner.nextLine();

String[] symbols = input.split(" ");

for (int i = (int)symbols.length-1; i >= 0; i--) {

System.out.print(symbols[i]+" ");

}

}

}

## Even and Odd Subtraction

package Arrays;

import java.util.Arrays;

import java.util.Scanner;

public class ArraysPrep {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int[] numbers = Arrays.stream(scanner.nextLine().split(" ")).mapToInt(Integer::parseInt).toArray();

int oddSum = 0;

int evenSum = 0;

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

if (numbers[i] % 2 == 0) {

evenSum += numbers[i];

} else {

oddSum += numbers[i];

}

}

System.out.println(evenSum-oddSum);

}

}

## Equal Arrays

package Arrays;

import java.util.Arrays;

import java.util.Scanner;

public class ArraysPrep {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int[] arr1 = Arrays.stream(scanner.nextLine().split(" ")).mapToInt(Integer::parseInt).toArray();

int[] arr2 = Arrays.stream(scanner.nextLine().split(" ")).mapToInt(Integer::parseInt).toArray();

int sum = 0;

for (int i = 0; i < arr1.length; i++) {

sum += arr1[i];

if (arr1[i] != arr2[i]) {

System.out.printf("Arrays are not identical. Found difference at %d index.", i);

return;

}

}

System.out.println(String.format("Arrays are identical. Sum: %d", sum));

}

}

## Condense Array to Number

package Arrays;

import java.util.Arrays;

import java.util.Scanner;

public class ArraysPrep {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int[] arr1 = Arrays.stream(scanner.nextLine().split(" ")).mapToInt(Integer::parseInt).toArray();

int[] condArr = new int[arr1.length - 1];

if (arr1.length == 1) {

System.out.println(arr1[0]);

return;

}

for (int i = 0; i < arr1.length; i++) {

for (int j = 0; j < condArr.length - i; j++) {

condArr[j] = arr1[j] + arr1[j + 1];

}

arr1 = condArr;

}

System.out.println(condArr[0]);

}

}