import java.util.Scanner;  
  
public class Main {  
 public static void main(String[] args) {  
 *// Q. 1.9  
 area*();  
  
 *// Q. 1.11  
 population*();  
  
 *// Q. 2.5  
 subtotal*();  
  
 *// Q. 2.6  
 sumOfDigits*();  
  
 *// Q. 3.5  
 findFutureDay*();  
 }  
  
  
 *//-----------------------------------* public static void area() {  
 *// q. 1.9* double area = 4.5 \* 7.9;  
 System.*out*.println("the area is " + area);  
 }  
 *//-----------------------------------  
  
 //-----------------------------------* public static void population() {  
 int oldPopulation = 312032486;  
 int secondsPerYear = 365 \* 24 \* 60 \* 60;  
  
 long newPopulation = 0;  
 for (int i = 0 ; i < 5 ; i++){  
 newPopulation = newPopulation + oldPopulation + (secondsPerYear/7) + (secondsPerYear/45) - (secondsPerYear/13);  
 System.*out*.println("the population in year " + (i + 1) + " is " + newPopulation);  
 }  
 }  
 *//-----------------------------------  
  
 //-----------------------------------* public static void subtotal() {  
 Scanner scanner = new Scanner(System.*in*);  
 System.*out*.print("enter the subtotal: ");  
 int subtotal = scanner.nextInt();  
  
 System.*out*.print("enter gratuity rate: ");  
 int rate = scanner.nextInt();  
  
  
 double res;  
 res = subtotal + ((rate/100.0) \* subtotal);  
  
 System.*out*.println("the total is " + res);  
  
 }  
 *//-----------------------------------  
  
 //-----------------------------------* public static void sumOfDigits() {  
 Scanner scanner = new Scanner(System.*in*);  
 System.*out*.print("enter a number between 0 and 1000: ");  
 int number = scanner.nextInt();  
 int res = 0;  
 while(number > 0){  
 res = res + number % 10;  
 number = number / 10;  
 }  
 System.*out*.println("the sum of digits is : " + res);  
  
 }  
 *//-----------------------------------  
  
 //-----------------------------------* public static void findFutureDay() {  
 Scanner scanner = new Scanner(System.*in*);  
 System.*out*.print("enter a day number: ");  
 int today = scanner.nextInt();  
  
 System.*out*.print("enter how far the day in the future: ");  
 int futureDay = scanner.nextInt();  
  
 switch((futureDay - today) % 7){  
 case 0:  
 System.*out*.println("the future day is : sunday");  
 break;  
  
 case 1:  
 System.*out*.println("the future day is : monday");  
 break;  
  
 case 2:  
 System.*out*.println("the future day is : teusday");  
 break;  
  
 case 3:  
 System.*out*.println("the future day is : wendsday");  
 break;  
  
 case 4:  
 System.*out*.println("the future day is : thursday");  
 break;  
  
 case 5:  
 System.*out*.println("the future day is : friday");  
 break;  
  
 case 6:  
 System.*out*.println("the future day is : saturday");  
 break;  
  
 default:  
 System.*out*.println("wrong input");  
 break;  
 }  
  
 }  
 *//-----------------------------------*}