package TechModule;

import java.util.Scanner;

public class Age {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

String person = "";

if (age >= 0 && age <= 2) {

person = "baby";

} else if (age <= 13) {

person = "child";

} else if (age <= 19) {

person = "teenager";

} else if (age <= 65) {

person = "adult";

} else if (age > 65) {

person = "elder";

}

System.out.println(person);

}

}

package TechModule;

import java.util.Scanner;

public class Lab {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

if (number % 10 == 0) {

System.out.println("The number is divisible by 10");

} else if (number % 2 == 0 && number % 10 == 0) {

System.out.println("The number is divisible by 10");

} else if (number % 7 == 0) {

System.out.println("The number is divisible by 7");

} else if (number % 2 == 0 && number % 3 == 0) {

System.out.println("The number is divisible by 6");

} else if (number % 3 == 0) {

System.out.println("The number is divisible by 3");

} else if (number % 2 == 0) {

System.out.println("The number is divisible by 2");

}else {

System.out.println("Not divisible");

}

}

}

package TechModule;

import java.util.Scanner;

public class division {

public static void main(String[] args) {

Scanner scan = new Scanner(System.in);

int people = Integer.parseInt(scan.nextLine());

String type = scan.nextLine();

String day = scan.nextLine();

double price = 0;

if (day.equals("Friday")) {

if (type.equals("Students")) {

price = 8.45;

} else if (type.equals("Business")) {

price = 10.90;

} else if ((type.equals("Regular"))) {

price = 15;

}

} else if (day.equals("Saturday")) {

if (type.equals("Students")) {

price = 9.80;

} else if (type.equals("Business")) {

price = 15.60;

} else if ((type.equals("Regular"))) {

price = 20;

}

} else if (day.equals("Sunday")) {

if (type.equals("Students")) {

price = 10.46;

} else if (type.equals("Business")) {

price = 16;

} else if ((type.equals("Regular"))) {

price = 22.50;

}

}

if (type.equals("Students") && people >= 30) {

price \*= .85;

} else if (type.equals("Business") && people >= 100) {

people = people - 10;

} else if (type.equals("Regular") && (people >= 10 && people <= 20)) {

price \*= .95;

}

price \*= people;

System.out.printf("Total price: %.2f%n", price);

}

}

package TechModule;

import java.util.Scanner;

public class Lab {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

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

int sum = 0;

for (int i = start; i <= end; i++) {

System.out.print(i + " ");

sum += i;

}

System.out.printf("\nSum: %d",sum);

}

}

package TechModule;

import java.util.Scanner;

public class Lab {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

String username = scanner.nextLine();

String pass = scanner.nextLine();

String password = "";

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

password += username.charAt(i);

}

int count = 0;

while (true) {

if (pass.equals(password)) {

System.out.printf("User %s logged in.", username);

return;

}else if (count >= 3) {

System.out.printf("User %s blocked!", username);

return;

}

else {

System.out.println("Incorrect password. Try again.");

count++;

pass = scanner.nextLine();

}

}

}

}

package TechModule;

import java.util.Scanner;

public class Lab {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

String num = scanner.nextLine();

int number = Integer.parseInt(num);

int number1 = Integer.parseInt(num);

int factorial = 0;

int fact = 1;

for (int i = 1; i <= num.length(); i++) {

int digit = number % 10;

number = number / 10;

for (int j = 1; j <= digit; j++) {

fact \*= j;

}

factorial += fact;

fact = 1;

}

if (number1 == factorial) {

System.out.println("yes");

} else System.out.println("no");

}

}

package TechModule;

import java.util.Scanner;

public class Age {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

String input = scanner.nextLine();

double sum = 0;

while (!input.equals("Start")) {

double coins = Double.parseDouble(input);

if (coins == 0.1 || coins == 0.2 || coins == 0.5 || coins == 1 || coins == 2) {

sum = (sum + coins);

} else {

System.out.printf("Cannot accept %.2f\n", coins);

}

input = scanner.nextLine();

}

if (input.equals("Start")) {

input = scanner.nextLine();

while (true) {

switch (input) {

case "Nuts":

if (sum >= 2.0) {

System.out.println("Purchased Nuts");

sum -= 2.0;

} else {

System.out.println("Sorry, not enough money");

}

break;

case "Water":

if (sum >= 0.7) {

System.out.println("Purchased Water");

sum -= 0.7;

} else {

System.out.println("Sorry, not enough money");

}

break;

case "Crisps":

if (sum >= 1.5) {

System.out.println("Purchased Crisps");

sum -= 1.5;

} else {

System.out.println("Sorry, not enough money");

}

break;

case "Soda":

if (sum >= 0.8) {

System.out.println("Purchased Soda");

sum -= 0.8;

} else {

System.out.println("Sorry, not enough money");

}

break;

case "Coke":

if (sum >= 1.0) {

System.out.println("Purchased Coke");

sum -= 1.0;

} else {

System.out.println("Sorry, not enough money");

}

break;

default:

System.out.println("Invalid product");

break;

}

input = scanner.nextLine();

if (input.equals("End")) {

System.out.printf("Change: %.2f",sum);

break;

}

}

}

}

}

package ExamPrep;

import java.math.BigInteger;

import java.util.Scanner;

public class javaAdvanced {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

for (int row = 1; row <= n; row++) {

for (int col = 1; col <= row; col++) {

System.out.print(row+" ");

}

System.out.println();

}

}

}

package ExamPrep;

import java.math.BigInteger;

import java.util.Scanner;

public class javaAdvanced {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

double money = Double.parseDouble(scanner.nextLine());

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

double sabresPrice = Double.parseDouble(scanner.nextLine());

double robesPrice = Double.parseDouble(scanner.nextLine());

double beltsPrice = Double.parseDouble(scanner.nextLine());

double freeBelts = Math.floor(studentsCount / 6.0);

double students = Math.ceil(studentsCount + studentsCount \* 0.1);

double neededMoney = sabresPrice \* students + robesPrice \* studentsCount + beltsPrice \* (studentsCount - freeBelts);

if (money >= neededMoney){

System.out.printf("The money is enough - it would cost %.2flv.",neededMoney);

}else {

System.out.printf("Ivan Cho will need %.2flv more.",neededMoney-money);

}

}

}

package ExamPrep;

import java.math.BigInteger;

import java.util.Scanner;

public class javaAdvanced {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

double headsetPrice = Double.parseDouble(scanner.nextLine());

double mousePrice = Double.parseDouble(scanner.nextLine());

double keyboardPrice = Double.parseDouble(scanner.nextLine());

double displayPrice = Double.parseDouble(scanner.nextLine());

double headsetTrashed = Math.floor(lostGamesCount/2.0);

double mouseTrashed = Math.floor(lostGamesCount/3.0);

double keyboardTrashed = Math.floor(lostGamesCount/6.0);

double dispalayTrashed = Math.floor(keyboardTrashed/2);

double result = headsetPrice\*headsetTrashed+mousePrice\*mouseTrashed+keyboardPrice\*keyboardTrashed+dispalayTrashed\*displayPrice;

System.out.printf("Rage expenses: %.2f lv.",result);

}

}