import java.util.Scanner;

class Studentx{

Scanner s=new Scanner(System.in);

private int usn;

private String name;

int n;

int[] marks=new int[10];

int[] credits=new int[10];

void getMarks(){

System.out.println("Enter no of subjects:");

this.n=s.nextInt();

System.out.println("Enter marks of subjects and credits consecutively:");

for(int i=0;i<n;i++){

this.marks[i]=s.nextInt();

this.credits[i]=s.nextInt();

}

}

int[] getGrade(){

int[] grade=new int[10];

for(int i=0;i<n;i++){

if(marks[i]>=90){

grade[i]=10;

}else if(marks[i]>=80){

grade[i]=9;

}else if(marks[i]>=70){

grade[i]=8;

}else if(marks[i]>=60){

grade[i]=7;

}else if(marks[i]>=50){

grade[i]=6;

}else if(marks[i]>=40){

grade[i]=5;

}else if(marks[i]>=30){

grade[i]=4;

}else{

grade[i]=0;

}

}

return grade;

}

double calc(){

int sum1=0,sum2=0;

for(int i=0;i<n;i++){

int[] grade;

grade=getGrade();

sum1+=grade[i]\*this.credits[i];

sum2+=this.credits[i];

}

return (double)sum1/sum2;

}

void display(){

System.out.println("Marks\tCredits\n");

for(int i=0;i<n;i++){

System.out.println(this.marks[i]+"\t\t"+this.credits[i]+"\n");

}

System.out.println("SGPA="+calc());

}

}

class mainx{

public static void main(String args[]){

Studentx s=new Studentx();

s.getMarks();

s.calc();

s.display();

}

}

