VITE&TC PDTY23 ITPRODUCT

Problem Statement #1	You're going to write some code to help you cook a Paneer Sabji from your favorite cookbook. According to your cookbook, the Paneer Sabji should be in the oven for 40 minutes. Given the time (in minutes), the Paneer Sabji has been in the oven, find how many more minutes the Paneer Sabji still needs to bake for
Problem Constraint	0 <= N <= 40
Example Input	30
Example Output	10

Problem Statement #2	You'll write some code to help you cook a Kulcha from your favorite cookbook. Now, you also want to add a few layers to the Kulcha. Assume **each layer takes 2 minutes** to prepare. Given the number of layers you want to add to the Kulcha, find how many minutes you would spend making them
Problem Constraint	The only first line contains the integer N denoting the number of layers
Example Input	2
Example Output	4

Problem Statement #3	You wrote some code to help you cook a Sweet Appe from your favorite cookbook. Now, you want to find the total number of minutes you've been cooking for the sum of your preparation time and the time the Sweet Appe have already spent baking in the oven. The preparation time of one layer is 2 minutes. Given the number of layers added to the Sweet Appe and the number of minutes the Sweet Appe has been baking in the oven, find the total elapsed cooking time (prep + bake) in minutes
Problem Constraint	1 <= N <= 20 0 <= M <= 40
Example Input	3 20
Example Output	26

Problem Statement #4	Given two numbers A and B. Multiply them and print the product
Problem Constraint	10^5 <= A, B <= 10^6
Example Input	100000 1000000
Example Output	100000000000

Problem Statement #5	Your friend Arjun plans to visit exotic countries all around the world. Sadly, Arjun's math skills aren't good enough. Given the amount of money Arjun has before the currency exchange and the amount of money that is spent from his savings, print the amount of money that remains in his savings.
Problem Constraint	1 <= N <= 1000 1 <= M <= N
Example Input	116 12
Example Output	104

Problem Statement #6	Given total bills amount and amount of a single bill. Print number of bills. **Note :** The total amount is equally splitted in all bills. The number of bills should be an integer value
Problem Constraint	1 <= N <= 100 1 <= M <= 100
Example Input	126.3 5
Example Output	25

Problem Statement #7	You are given an integer **A**. You have to tell how many days are there in the month denoted by **A** in a non-leap year. Months are denoted as follows: • January : 1 • February : 2 • March : 3 • April : 4 • May : 5 • June : 6 • July : 7 • August : 8 • September : 9 • October : 10 • November : 11 • December : 12
Problem Constraint	1 <= **A** <= 12
Example Input	11
Example Output	30

Problem Statement #8	Write a program to calculate the percentage (according to marks of a student) and grade (according to the percentage of a student). Five numbers(A, B, C, D & E) represent the marks of a student in 5 subjects which are out of 100. Print the percentage and the grade of the student. If percentage >= 90% : Grade A If percentage >= 80% but <90 : Grade B If percentage >= 70% but <80: Grade C If percentage >= 60% but <70: Grade D If percentage >= 40% but <60: Grade E If percentage < 40%: Grade F NOTE: You have to take the lowest integer of the percentage. E.g. 90.8% will be treated as 90%.
Problem Constraint	There will be five lines of inputs as following: The five lines contain the 5 subject marks of the student in numerical format
Example Input	50 60 70 80 90
Example Output	70 C

Problem Statement #9	Write a program to input from user three numbers (**A, B & C**) representing side lengths of a triangle. You have to print if the traingle is "equilateral", "scalene" or "isosceles".
Problem Constraint	1 <= A <= 100000 1 <= B <= 100000 1 <= C <= 100000
Example Input	5 6 7
Example Output	scalene

Problem Statement #10	Write a program that takes in a number **N** as input and does the following: • if **N** is a multiple of 3, print **Gopal** • if **N** is a multiple of 5, print **Krishna** • if **N** is a multiple of both 3 and 5, print **GopalKrishna**
Problem Constraint	1 <= N <= 1000
Example Input	15
Example Output	GopalKrishna

Problem Statement #11	Mr. Bhim got the Electricity bill of his house. He felt that the bill amount was too much. He come to you to understand the relation between amount and number of units with Electricity bill Instructions are give on Electricity biil that : 1. For **first 50** units **Rs. 0.50/unit**. 2. For **next 100** units **Rs. 0.75/unit**. 3. For **next 100** units **Rs. 1.20/unit**. 4. For **above 250** units **Rs. 1.50/unit**. 5. An additional **surcharge of 20%** is added to the bill. **NOTE:** As the electricity bill can have any real value (floating point), you have to tell the Integral value of the bill. For eg. Integral value of 2.91 is 2 To avoid manual calculation again and again, You have to write a code which take number of Unit (**suppose N**) from user and print the amount
Problem Constraint	0 < **N** <= 100000
Example Input	150
Example Output	120
Explanation	For first 50 units, the bill is (Rs 0.5/unit) * (50 unit) = Rs 25 For next 100 units, the bill is (Rs 0.75/unit) * (100 unit) = Rs 75 Bill amount without additional surcharge = Rs 100 Total Bill amount with additional surcharge = Rs (100 + 0.20 * 100) = Rs 120

Problem Statement #12	In this exercise, you need to implement some rules from Pac-Man, the classic 1980s-era arcade-game. You have to answer whether the Pac-Man loses or not. Your are given the following integer inputs (0 / 1) one in each line: 1. Does the Pac-Man have a power pellect active? 2. Is the Pac-Man touching a ghost? The Pac-Man loses if it is touching a ghost and **does not** have a power pellet active
Problem Constraint	The first line indicates if the Pac-Man has a power pellet active (1 for yes, 0 for no) The second line indicates if the Pac-Man is touching a ghost (1 for yes, 0 for no)
Example Input	0 1
Example Output	1

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