

OUT

For example:

# **Input Result**

```
8
3 OUT
```

Answer:(penalty regime: 0 %)

```
p=int(input())
s=int(input())
if ((p/2)<=s):
    print("IN")
else:
    print("OUT")</pre>
```

#### Feedback

# **Input Expected Got**

8	OUT	OUT
8 5	IN	IN
20 9	OUT	0UT
50 31	IN	IN

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

# **Question 2**

Correct Mark 1.00 out of 1.00  $\square^{\mathbb{V}}$  Flag question

#### **Question text**

A certain type of steel is used to test and give grade according to the following conditions.

1. Hardness of the steel must be greater than 50

- 2. Carbon content of the steel must be less than 0.7
- 3. Tensile strength must be greater than 5600

The grades awarded are as follows:

- Grade is 10 if all three conditions are met
- Grade is 9 if conditions (1) and (2) are met
- Grade is 8 if conditions (2) and (3) are met
- Grade is 7 if conditions (1) and (3) are met
- Grade is 6 if only one condition is met
- Grade is 5 if none of the three conditions are met

Write a program to display the grade of the steel, based on the values of hardness, carbon content and tensile strength of the steel, given by the user.

# Input

53

0.6

5602

#### Output:

10

# Answer:(penalty regime: 0 %)

```
h=int(input())
c=float(input())
t=int(input())
if(h>50 and c<0.7
and t>5600):
  print("10")
elif(h>50 and
c<0.7):
  print("9")
elif(c<0.7 and
t>5600):
  print("8")
elif(h>50 and
t>5600):
  print("7")
elif(h>50 or c<0.7
or t>5600):
  print("6")
```

#### **Feedback**

#### **Input Expected Got**

```
53

0.6 10 10

5602

45

0 6 6

4500
```

#### Passed all tests!

Correct

Marks for this submission: 1.00/1.00. **Question 3** Correct Mark 1.00 out of 1.00  $\square$  Flag question **Question text** Given an integer N, check whether N the given number can be made a perfect square after adding 1 to it. Input Format: Single integer input. Output Format: Yes or No. Example Input: 24 Output: Yes Example Input: 26 Output: No

#### **Input Result**

For example:

24 Yes

```
Answer:(penalty regime: 0 %)
[a=int(input())
```

a=int(input()) b=a+1 s=int(b\*\*0.5) if ((s\*s)==b): print("Yes") else: print("No")

# Feedback

# **Input Expected Got**

24 Yes Yes26 No No

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

# **Question 4**

Correct Mark 1.00 out of 1.00  $\square$  Flag question

#### **Question text**

Most years have 365 days. However, the time required for the Earth to orbit the Sun is actually slightly more than that. As a result, an extra day, February 29, is included in some years to correct for this difference. Such years are referred to as leap years. The rules for determining whether or not a year is a leap year follow:

- Any year that is divisible by 400 is a leap year.
- Of the remaining years, any year that is divisible by 100 is not a leap year.
- Of the remaining years, any year that is divisible by 4 is a leap year.
- All other years are not leap years.

Write a program that reads a year from the user and displays a message indicating whether or not it is a leap year.

Sample Input 1

1900

Sample Output 1

1900 is not a leap year.

Sample Input 2

2000

Sample Output 2

2000 is a leap year.

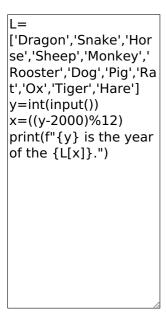
Answer:(penalty regime: 0 %)

```
y=int(input())
if(y%400==0):
    print(f"{y} is a leap
year.")
elif(y%100==0):
    print(f"{y} is not a
leap year.")
elif(y%4==0):
    print(f"{y} is a leap
year.")
else:
    print(f"{y} is not a
leap year.")
```

# Feedback

Input	ŀ	zpe	ted		Got							
1900	1900	is	not	a	leap	year.	1900	is	not	а	leap	year.
2000	2000	is	a le	eap	year	·.	2000	is	a le	eap	yeaı	r.
2100	2100	is	not	а	leap	year.	2100	is	not	а	leap	year.
2020	2020	is	a le	eap	year	٠.	2020	is	a le	eap	yeaı	r.

Passed all tests!
Correct Marks for this submission: 1.00/1.00.
Question 5
Correct Mark 1.00 out of 1.00 $\Box^{\mathbb{F}}$ Flag question
Question text
The Chinese zodiac assigns animals to years in a 12 year cycle. One 12 year cycle is shown in the table below. The pattern repeats from there, with 2012 being another year of the dragon, and 1999 being another year of the hare.
Year Animal
2000 Dragon
2001 Snake
2002 Horse
2003 Sheep
2004 Monkey
2005 Rooster
2006 Dog
2007 Pig
2008 Rat
2009 Ox
2010 Tiger
2011 Hare
Write a program that reads a year from the user and displays the animal associated with that year. Your program should work correctly for any year greater than or equal to zero, not just the ones listed in the table.
Sample Input 1
2010
Sample Output 1
2010 is the year of the Tiger.
Sample Input 2
2020
Sample Output 2
2020 is the year of the Rat.
Answer:(penalty regime: 0 %)



#### **Feedback**

Input		Expected					Got								
	2010	2010	is	the	year	of	the	Tiger.	2010	is	the	year	of	the	Tiger.
	2020	2020	is	the	year	of	the	Rat.	2020	is	the	year	of	the	Rat.

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

# **Question 6**

Correct Mark 1.00 out of 1.00  $\square^{\mathbb{P}}$  Flag question

#### **Question text**

Write a program to determine the type of berth when the seat / berth number in the train is given.



# **Input Format:**

Input consists of a single integer. Assume that the range of input is between 1 and 72.

# **Output Format:**

Output consists of a single string. [Upper or Middle or Lower or Side Lower or Side Upper]

#### **Sample Input 1:**

9

# **Sample Output 1:**

Lower Berth

```
Answer:(penalty regime: 0 %)
a=int(input())
if(a==72):
  print("Side Upper
Berth")
elif(a== 1 or 4 or 9)
or 12 or 17 or 20 or
25 or 28 or 33 or 36
or 41 or 44 or 49 or
52 or 57 or 60 or 65
or 68):
  print("Lower
Berth")
elif(a== 2 or 5 or 10)
or 13 or 18 or 21 or
26 or 29 or 34 or 37
or 45 or 50 or 53 or
58 or 61 or 66 or
69):
```

#### Feedback

input	Expected	Got
9	Lower Berth	Lower Berth
72	Side Upper Berth	Side Upper Berth

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

# **Question 7**

Correct Mark 1.00 out of 1.00  $\square^{\nabla}$  Flag question

#### **Question text**

Write a program to calculate and print the Electricity bill where the unit consumed by the user is given from test case. It prints the total amount the customer has to pay. The charge are as follows:

Unit	Charge / Unit
Upto 199	@1.20
200 and above but less than 400	@1.50
400 and above but less than 600	@1.80
600 and above	@2.00

If bill exceeds Rs.400 then a surcharge of 15% will be charged and the minimum bill should be of Rs.100/-

# Test Case 1 Input 50 Output 100.00 Test Case 2 Input 300 Output 517.50 For example: **Input Result** 100.00 120.00 500 1035.00 Answer:(penalty regime: 0 %) a=float(input()) if a<200: charge=a\*1.20 elif a<400: charge=a\*1.50 elif a<600: charge=a\*1.80 else: charge=a\*2.00 if charge>400: charge\*=1.15 if charge<100:

Sample Test Cases

#### **Feedback**

# Input Expected Got

charge=100 print("%.2f"%charge)

50	100.00	100.00
100.00	120.00	120.00
500	1035.00	1035.00
700	1610.00	1610.00

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

# **Question 8**

Correct
Mark 1.00 out of 1.00
$\square^{ abla}$ Flag question

#### **Question text**

A triangle can be classified based on the lengths of its sides as equilateral, isosceles or scalene. All three sides of an equilateral triangle have the same length. An isosceles triangle has two sides that are the same length, and a third side that is a different length. If all of the sides have different lengths then the triangle is scalene.

Write a program that reads the lengths of the three sides of a triangle from the user. Then display a message that states the triangle's type.

the triangle 3 type.
Sample Input 1
60
60
60
Sample Output 1
That's a equilateral triangle
Sample Input 2
40
40
80
Sample Output 2
That's a isosceles triangle
Sample Input 3

Sample Output 3

50

6070

That's a scalene triangle

For example:

Input		Result						
60 60 60	That's	а	equilateral	l triangle				
40 40 80	That's	а	isosceles t	triangle				

Answer:(penalty regime: 0 %)

```
a=int(input())
b=int(input())
c=int(input())
if (a==b==c==a):
    print("That's a
equilateral triangle")
elif
(a!=b)and(b!=c)and(c
!=a):
    print("That's a
scalene triangle")
else:
    print("That's a
isosceles triangle")
```

#### **Feedback**

Input	Expected		Got	
60 60 60	That's a equilateral triangle	e That's a	equilateral	triangle
40 40 80	That's a isosceles triangle	That's a	isosceles t	riangle
50 60 70	That's a scalene triangle	That's a	scalene tria	angle
50 50 80	That's a isosceles triangle	That's a	isosceles t	riangle
10 10 10	That's a equilateral trianglo	e That's a	equilateral	triangle

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

# **Question 9**

Correct Mark 1.00 out of 1.00  $\square$  Flag question

#### **Question text**

Write a program that accepts 5 inputs and returns the count of how many of those 5 are odd.

For example,

If the five inputs are 12, 17, 19, 14, and 115, there are three odd numbers 17, 19 and 115. So, the program must return 3.

Similarly,

If the five inputs are 15, 0, -12, 19, and 28, there are two odd numbers 15 and 19. So, the program must return 2.

Observe that zero is considered an even number.

For example:

#### **Input Result**

```
12

17

19 3

14

115

15

0

-12 2

19

28

Answer:(penalty regime: 0 %)

count=0

for i in range(5):

    n=int(input())

    if n%2!=0:
```

```
count+=1
print(count)
```

# **Feedback**

# **Input Expected Got**

```
12
17
19 3 3
14
115
15
0
-12 2 2
19
28
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

# **Question 10**

Correct Mark 1.00 out of 1.00 □ Flag question

# **Question text**

Write a Python program that accepts three parameters. The first parameter is an integer. The second is one of the following mathematical operators: +, -, /, or \*. The third parameter will also be an integer.

The function should perform a calculation and return the results. For example, if the function is passed 6 and 4, it should return 24.

Sample Input Format:

```
•
```

14

Sample Output Format:

25

```
Answer:(penalty regime: 0 %)

a=int(input())
b=input()
c=int(input())
if(b=='+'):
    print(a+c)
elif(b=='-'):
    print(a/c)
elif(b=='|'):
    print(a or c)
elif(b=='*'):
    print(a*c)
```

#### **Feedback**

# **Input Expected Got**

```
11
+ 25 25
14
45
- -5 -5
50
12
* 1200 1200
18
/ 9.0 9.0
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Save the state of the flags

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