

REC-PS

Question 1

Correct

Mark: 1.00 out of 1.00

Flag question

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.  
For example, 3, 5 and 4 form a Pythagorean triple, since  $3^2 + 4^2 = 25 = 5^2$ .  
You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.

Sample Input

3  
5  
4

Sample Output

yes

Sample Test Cases

Test Case 1

Input

3  
5  
4

Output

yes

Test Case 2

Input

5  
8  
2

Output

no

Answer: (penalty regime: 0 %)

```
1 a = int(input())
2 b = int(input())
3 c = int(input())
4 if(a2 + b2 == c2 or a2 + c2 == b2 or b2+c2 == a2):
5     print("yes")
6 else:
7     print("no")
```

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Sample Output:  
It's a consonant.

For example:

Input	Result
y	Sometimes it's a vowel... Sometimes it's a consonant.
c	It's a consonant.

Answer: (penalty regime: 0 %)

```
1 x=input()
2 if(x=='a' or x=='e' or x=='i' or x=='o' or x=='u') :
3     print('It's a vowel. ')
4 elif(x=='y'):
5     print('Sometimes it's a vowel... Sometimes it's a consonant. ')
6 else:
7     print('It's a consonant. ')
```

	Input	Expected	Got	
✓	i	It's a vowel.	It's a vowel.	✓
✓	y	Sometimes it's a vowel... Sometimes it's a consonant.	Sometimes it's a vowel... Sometimes it's a consonant.	✓
✓	c	It's a consonant.	It's a consonant.	✓
✓	e	It's a vowel.	It's a vowel.	✓
✓	f	It's a consonant.	It's a consonant.	✓

Passed all tests! ✓

Correct

For example:

Input	Result
100.00	120.00
500	1035.00

Answer: (penalty regime: 0 %)

```
1 x= float(input())
2 if(x<100):
3     if(x<100):
4         print((100-x)*x)
5     else:
6         print(x*1.20)
7 elif(x<200 and x<400):
8     print(x*1.50)
9 elif(x<400 and x<600):
10    print((x*1.80)+(x*1.80*0.15))
11 else:
12    print((x*2.00)+(x*2.00*0.15))
```

	Input	Expected	Got	
✓	50	100.00	100.0	✓
✓	100.00	120.00	120.0	✓
✓	500	1035.00	1035.0	✓
✓	700	1010.00	1010.0	✓

Passed all tests! ✓

Correct

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69  
69  
49 That's a isosceles triangle  
49  
80

Answer: (penalty regime: 0 %)

```
1 x= int(input())
2 y= int(input())
3 z= int(input())
4 if(x==y==z):
5     print("That's a equilateral triangle")
6 elif(x==y or y==z or x==z):
7     print("That's a isosceles triangle")
8 else:
9     print("That's a scalene triangle")
```

	Input	Expected	Got	
✓	60 60 60	That's a equilateral triangle	That's a equilateral triangle	✓
✓	40 40 60	That's a isosceles triangle	That's a isosceles triangle	✓
✓	50 60 70	That's a scalene triangle	That's a scalene triangle	✓
✓	50 50 60	That's a isosceles triangle	That's a isosceles triangle	✓
✓	10 10 10	That's a equilateral triangle	That's a equilateral triangle	✓

Sample Output 3

April has 30 days in it.

For example:

Input	Result
February	February has 28 or 29 days in it.

Answer: (penalty regime: 0 %)

```
1 x = input()
2 if(x == 'January' or x == 'March' or x == 'May' or x == 'July' or x == 'August' or x == 'October' or x == 'December'):
3     print(x,"has 31 days in it.")
4 elif(x == 'April' or x == 'June' or x == 'September' or x == 'November'):
5     print(x,"has 30 days in it.")
6 else:
7     print(x,"has 28 or 29 days in it.")
```

	Input	Expected	Got	
✓	February	February has 28 or 29 days in it.	February has 28 or 29 days in it.	✓
✓	March	March has 31 days in it.	March has 31 days in it.	✓
✓	April	April has 30 days in it.	April has 30 days in it.	✓
✓	May	May has 31 days in it.	May has 31 days in it.	✓

Passed all tests! ✓

Correct

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2020  
Sample Output 2  
2020 is the year of the Rat.  
Answer: (penalty regime: 0 %)

```
1 x= int(input())
2 if(x-2000)%12==0:
3     y="Dragon"
4 elif(x-2000)%12==1:
5     y="Snake"
6 elif(x-2000)%12==2:
7     y="Horse"
8 elif(x-2000)%12==3:
9     y="Sheep"
10 elif(x-2000)%12==4:
11     y="Monkey"
12 elif(x-2000)%12==5:
13     y="Rooster"
14 elif(x-2000)%12==6:
15     y="Dog"
16 elif(x-2000)%12==7:
17     y="Pig"
18 elif(x-2000)%12==8:
19     y="Rat"
20 elif(x-2000)%12==9:
21     y="Ox"
22 elif(x-2000)%12==10:
23     y="Tiger"
24 else:
25     print("None")
26 print(x,"is the year of the",y)
```

	Input	Expected	Got	
✓	2020	2020 is the year of the tiger.	2020 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 7  
Correct  
Mark: 1.00 out of 1.00

IN / OUT  
Mr. Silva, the faculty handling programming lab for you, is very strict. Your seniors have told you that she will not allow you to enter the week's lab if you have not completed atleast half the number of problems given last week. Many of you...

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Input	Result
8	OUT
9	

```
1 x=int(input())
2 y=int(input())
3 z=x/2
4 if(y>z):
5     print("IN")
6 else:
7     print("OUT")
```

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00

For example:

Input	Result
70 60 80	The candidate is eligible

Answer: (penalty regime: 0 %)

```
1 x= int(input())
2 y = int(input())
3 z= int(input())
4 if(x<55 and y<55 and z<55):
5     print("The candidate is eligible")
6 elif(x<55 and y<55 and z<55):
7     print("The candidate is eligible")
8 else:
9     print("The candidate is not eligible")
```

	Input	Expected	Got	
✓	70 60 80	The candidate is eligible	The candidate is eligible	✓
✓	50 60 80	The candidate is eligible	The candidate is eligible	✓
✓	50 60 40	The candidate is not eligible	The candidate is not eligible	✓
✓	20 10 25	The candidate is not eligible	The candidate is not eligible	✓

Passed all tests! ✓



REC-PS

25

Passed all tests! ✓

Correct

Stars for this submission: 1.00/1.00

Question 9

incorrect

Mark: 0.00 out of 1.00

Flag question

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 %)

```
1 x = int(input())
2 if (x%400==0 and x%4!=0):
3     print(x,"is a leap year.")
4 elif (x%100==0):
5     print(x,"is not a leap year.")
6 else:
7     print(x,"is not a leap year.")
```

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Flag question

For example, if the given number is 197, the second last digit is 9.

Note1 - The second last digit should be returned as a positive number. I.e. if the given number is -197, the second last digit is 9.

Note2 - If the given number is a single digit number, then the second last digit does not exist. In such cases, the program should return -1. I.e. if the given number is 5, the second last digit should be returned as -1

For example:

Input	Result
197	9
5	-1

Answer: (penalty regime: 0 %)

```
1 x= int(input())
2 y = str(x)
3 z= str(y)
4 if(len(z)>=2):
5     print(z[-2])
6 else:
7     print('-1')
```

	Input	Expected	Got	
✓	197	9	9	✓
✓	-197	9	9	✓
✓	5	-1	-1	✓
✓	123456	5	5	✓
✓	0	-1	-1	✓

GitHub Dashboard

Week3\_coding: Attempt review

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Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=5536&cmid=94#question-5537-6

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