

Courseware

Updates & News

Calendar

Wiki

Discussion

Progress

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PROBLEM 2-1 (5/5 points)

What does the following code print? Assume Pylab's estimation code is perfect - that is, if you calculate that it would print 0.25, type 0.25 into the box rather than something like 0.24999999999. You may type in strings with or without quotes.

```
a = 1.0
b = 2.0
c = 4.0
yVals = []
xVals = range(-20, 20)
for x in xVals:
    yVals.append(a*x**2 + b*x + c)
yVals = 2*pylab.array(yVals)
xVals = pylab.array(xVals)
try:
    a, b, c, d = pylab.polyfit(xVals, yVals, 3)
    print a, b, c, d
except:
    print 'fell to here'
```

0.0 2.0 4.0 8.0

Check

Save

You have used 1 of 3 submissions

PROBLEM 2-2 (1/1 point)

Consider the following sets of measurements and answer the following 3 questions:

- A. [0,1,2,3,4,5,6,7,8]
- B. [5,10,10,10,15]
- C. [0,1,2,4,6,8]
- D. [6,7,11,12,13,15]
- E. [9,0,0,3,3,3,6,6]

Select the two lists that have the same mean and variance.

- \square A
- \Box B

- ✓ No two sets have the same mean and variance.

You have used 1 of 1 submissions

PROBLEM 2-3 (1/1 point)

Consider following Python functions:

```
def possible_mean(L):
    return sum(L)/len(L)
def possible_variance(L):
    mu = possible_mean(L)
    temp = 0
    for e in L:
        temp += (e-mu)**2
    return temp / len(L)
```

Select the two lists that return the same values when passed into the possible_variance function that is defined above.

- \square A
- ✓ B
- D
- No two sets return the same values.

You have used 1 of 1 submissions

PROBLEM 2-4 (1/1 point)

Is the the answer to Problem 2-2 the same as the answer to Problem 2-3? If not, why are they different?

- They are the same.
- They are different because the possible_mean function adds up the wrong values.
- They are different because of the way Python 2.7 handles division of integers.

They are different because of floating point precision issues.

You have used 1 of 1 submissions



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