

## Practice problems for the CS50P Week 3

These are practice problems.

### p3system

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1) Write a program that solves a system of linear equations using substitution method.

$$\begin{cases} a_1x + b_1y = c_1 \\ a_2x + b_2y = c_2 \end{cases}$$

The user can input the variables a, b, and c, and the program should output the values of x and y, rounded to one decimal place.

2) Use exceptions to catch any possible errors. If an error is detected, the code should print "Cannot solve" and exit. Explicitly catch each specific error, and do not use a general Exception.

#### Example

```
p3system/ $ python p3system.py
a1=2
b1=1
c1=5
a2=-1
b2=1
c2=2
x=1.0, y=3.0
p3system/ $ python p3system.py
a1=a
b1=2
c1=3
a2=4
b2=5
c2=6
Cannot solve
```

#### Testing and submitting your code

```
check50 okskola/cs50addp/main/p3system
submit50 okskola/cs50addp/main/p3system
```

### p3fun

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Complete Exceptions Exercise [https://uwpce-pythoncert.github.io/ProgrammingInPython/exercises/exceptions/except\\_exercise.html](https://uwpce-pythoncert.github.io/ProgrammingInPython/exercises/exceptions/except_exercise.html)

#### Submitting your code

```
submit50 okskola/cs50addp/main/p3fun
```