

Canonical Solutions: Python Exercises Part 1

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```
import sys
#1
print(int(sys.argv[1]) + int(sys.argv[2])) ✓
#2
print(sum([int(x) for x in sys.argv[1:]])) !
#3
print([int(x) for x in sys.argv[1:] if int(x) % 3 == 0]) \
#4
def fibonacci(x):          \ (QUV SIVE
    return 1 if x in (0,1) else fibonacci(x - 1) + fibonacci(x - 2)
print([fibonacci(x) for x in range(int(sys.argv[1]))]) ✓
#5
print([x**2 - 3*x + 2 for x in range(int(sys.argv[1]), int(sys.argv[2])+1)]) ✓
#6
a, b, c = [float(x) for x in sys.argv[1:4]]
if a + b < c or a + c < b or b + c < a:
    print("Error - bad side lengths")
else:
    p = (a + b + c) / 2
    print((p*(p-a)*(p-b)*(p-c))**0.5) ✓
#7
print({x: sys.argv[1].lower().count(x) for x in "aeiou"}) ✓
#8
previous = "N/A"
while previous != "quit":
    current = input("Please type your name: ")
    print("The last name was %s." % previous)
    previous = current
    ↗ string literal? what is name
#9
previous = []
while "quit" not in previous:
    current = input("Please type your name: ")
    print("Previous names: %s" % str(previous)[1:-1])
    previous.append(current)
    ✓
#10
q = '"Don' + "'t quote me," + "' she said.' | 
r = '"Don\'t quote me," she said.' ? |
s = '""Don't quote me," she said.' < | 
print(q + "\n" + r + "\n" + s)
```