

## 1 Exercises

**Exercise 1.** Consider the following program:

```
mystery.py

import stdio
import sys

stdio.write('Hi ')
stdio.write(sys.argv[4])
stdio.write(', ')
stdio.write(sys.argv[2])
stdio.write(', and ')
stdio.write(sys.argv[1])
stdio.writeln('!')
```

What does the program write to standard output when it is run as follows?

```
>_ ~/workspace/ipp/programs
$ python3 mystery.py Alice 'Bob Carol' Dan Eve
```

**Exercise 2.** Write a program called `phone.py` that accepts an area code (str), exchange code (str), and subscriber number (str) as command-line arguments, and writes to standard output the corresponding phone number in `+1 (xxx) xxx-xxxx` format.

```
>_ ~/workspace/ipp/programs
$ python3 phone.py 728 560 3845
+1 (728) 560-3845
$ -
```

## 2 Solutions

**Solution 1.**

```
Hi Eve, Bob Carol, and Alice!
```

**Solution 2.**

```
phone.py

import stdio
import sys

stdio.write('+1 (')
stdio.write(sys.argv[1])
stdio.write(') ')
stdio.write(sys.argv[2])
stdio.write('-')
stdio.writeln(sys.argv[3])
```