

### TRY IT YOURSELF

**4-10. Slices:** Using one of the programs you wrote in this chapter, add several lines to the end of the program that do the following:

- Print the message, *The first three items in the list are:*. Then use a slice to print the first three items from that program's list.
- Print the message, *Three items from the middle of the list are:*. Use a slice to print three items from the middle of the list.
- Print the message, *The last three items in the list are:*. Use a slice to print the last three items in the list.

**4-11. My Pizzas, Your Pizzas:** Start with your program from Exercise 4-1 (page 60). Make a copy of the list of pizzas, and call it `friend_pizzas`. Then, do the following:

- Add a new pizza to the original list.
- Add a different pizza to the list `friend_pizzas`.
- Prove that you have two separate lists. Print the message, *My favorite pizzas are:*, and then use a `for` loop to print the first list. Print the message, *My friend's favorite pizzas are:*, and then use a `for` loop to print the second list. Make sure each new pizza is stored in the appropriate list.

**4-12. More Loops:** All versions of `foods.py` in this section have avoided using `for` loops when printing to save space. Choose a version of `foods.py`, and write two `for` loops to print each list of foods.

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**4-3. Counting to Twenty:** Use a `for` loop to print the numbers from 1 to 20, inclusive.

**4-4. One Million:** Make a list of the numbers from one to one million, and then use a `for` loop to print the numbers. (If the output is taking too long, stop it by pressing `CTRL-C` or by closing the output window.)

**4-5. Summing a Million:** Make a list of the numbers from one to one million, and then use `min()` and `max()` to make sure your list actually starts at one and ends at one million. Also, use the `sum()` function to see how quickly Python can add a million numbers.

**4-6. Odd Numbers:** Use the third argument of the `range()` function to make a list of the odd numbers from 1 to 20. Use a `for` loop to print each number.

**4-7. Threes:** Make a list of the multiples of 3 from 3 to 30. Use a `for` loop to print the numbers in your list.

**4-8. Cubes:** A number raised to the third power is called a *cube*. For example, the cube of 2 is written as `2**3` in Python. Make a list of the first 10 cubes (that is, the cube of each integer from 1 through 10), and use a `for` loop to print out the value of each cube.

**4-9. Cube Comprehension:** Use a list comprehension to generate a list of the first 10 cubes.