CS50's Introduction to Programming with Python

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Adieu, Adieu

In The Sound of Music (https://en.wikipedia.org/wiki/The_Sound_of_Music_(film)), there's a song sung largely in English, So Long, Farewell (https://www.youtube.com/watch?v=Qy9_lfjQopU), with these lyrics (https://www.lyrics.com/lyric/3998488/Julie+Andrews/So+Long%2C+Farewell), wherein "adieu" means "goodbye" in French:

> Adieu, adieu, to yieu and yieu and yieu

Of course, the line isn't grammatically correct, since it would typically be written (with an Oxford comma (https://en.wikipedia.org/wiki/Serial_comma)) as:

> Adieu, adieu, to yieu, yieu, and yieu

To be fair, "yieu" isn't even a word; it just rhymes with "you"!

In a file called `adieu.py`, implement a program that prompts the user for names, one per line, until the user inputs control-d. Assume that the user will input at least one name. Then bid adieu to those names, separating two names with one `and`, three names with two commas and one `and`, and n names with $n - 1$ commas and one `and`, as in the below:

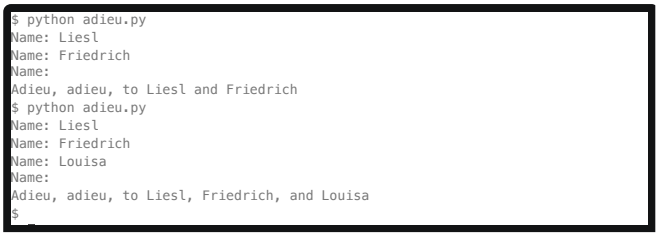
> Adieu, adieu, to Liesl
> Adieu, adieu, to Liesl and Friedrich
> Adieu, adieu, to Liesl, Friedrich, and Louisa
> Adieu, adieu, to Liesl, Friedrich, Louisa, and Kurt
> Adieu, adieu, to Liesl, Friedrich, Louisa, Kurt, and Brigitta
> Adieu, adieu, to Liesl, Friedrich, Louisa, Kurt, Brigitta, and Marta
> Adieu, adieu, to Liesl, Friedrich, Louisa, Kurt, Brigitta, Marta, and Gretl

▼ **Hints**

- Note that the `inflect` module comes with quite a few methods, per pypi.org/project/inflect (https://pypi.org/project/inflect/). You can install it with:

  ```
  pip install inflect
  ```

Demo



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Before You Begin

Log into cs50.dev (https://cs50.dev/), click on your terminal window, and execute `cd` by itself. You should find that your terminal window's prompt resembles the below:

```
$
```

Next execute

```
mkdir adieu
```

to make a folder called `adieu` in your codespace.

Then execute

```
cd adieu
```

to change directories into that folder. You should now see your terminal prompt as `adieu/ $`. You can now execute

```
code adieu.py
```

to make a file called `adieu.py` where you'll write your program.

How to Test

Here's how to test your code manually:

- Run your program with `python adieu.py`. Type `Liesl` and press Enter, followed by control-d. Your program should output:

  ```
  Adieu, adieu, to Liesl
  ```

- Run your program with `python adieu.py`. Type `Liesl` and press Enter, then type `Friedrich` and press Enter, followed by control-d. Your program should output:

  ```
  Adieu, adieu, to Liesl and Friedrich
  ```

- Run your program with `python adieu.py`. Type `Liesl` and press Enter, then type `Friedrich` and press Enter. Now type `Louisa` and press Enter, followed by control-d. Your program should output:

  ```
  Adieu, adieu, to Liesl, Friedrich, and Louisa
  ```

You can execute the below to check your code using `check50`, a program that CS50 will use to test your code when you submit. But be sure to test it yourself as well!

```
check50 cs50/problems/2022/python/adieu
```

Green smilies mean your program has passed a test! Red frownies will indicate your program output something unexpected. Visit the URL that `check50` outputs to see the input `check50` handed to your program, what output it expected, and what output your program actually gave.

How to Submit

In your terminal, execute the below to submit your work.

```
submit50 cs50/problems/2022/python/adieu
```