

The Laundry Stack

The person who puts his laundry on the pile last gets his laundry back first. The person who puts his laundry in the laundry pile first must wait the longest to get his laundry done because his laundry is at the bottom of the pile.

 laundry_stack.py

```
import time

laundry_stack = []

for x in range(4):
    name = input("Enter a name: ")
    laundry_stack.append(name)
    print(name + " has laundry added to the stack.\n")

time.sleep(1)
print(laundry_stack[0] + " has run out of clean underwear!\n")

for x in range(4):
    time.sleep(1)
    print(laundry_stack.pop() + "'s laundry is done.")
```

The `time` module is imported. An empty list is assigned to `laundry_stack`. The first `for` loop iterates four times. Each time the loop iterates it receives a person's name via the `input` function, appends the name to the list, and prints that the person's laundry has been added to the stack. The `time` module's `sleep` method allows a programmer to delay execution of the program. When making the `time.sleep` call, the number of seconds to delay is included as an argument. When the delay finishes, the execution of the program resumes, and a message about the first person's dire laundry situation gets printed.

The second `for` loop begins. A delay is added to give the effect of people waiting for laundry to be finished. The last person in the list gets his laundry first. The `pop` method removes his name, and a message prints indicating that his laundry is done. The loop proceeds in LIFO order. After the `for` loop finishes processing every item in the `laundry_stack` list, the list is empty.



laundry_stack

From Chapter 10 of Try a Nybble of Python

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