

Code is on the Class Web Page

That's all!

Again, all code is on the web page.

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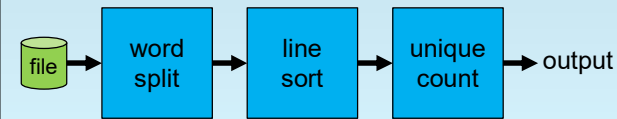
Need to Connect File Descriptors Between Programs

But how do we solve the problem?

We have three different programs!

For example, we need to connect

- `stdout` from `word_split` to
- `stdin` for `line_sort`.



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Use the Pipe Operator to Connect Programs

The shell supports redirection operators.

For example, typing

- `program1 | program2`
- connects `stdout` of `program1`
- with `stdin` of `program2`.
- The `|` is called **pipe**.
- The action is called piping the output of `program1` into `program2`.

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Connect Our Three Programs with Pipes

To solve our problem,

- we pipe the output
- from one program to the next.

To count words in a file example, type

```
./word_split example | ./line_sort | ./unique_count
```

The output of `unique_count`

- contains the list of words and counts
- and is sent to our display (terminal).

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