Exercise 12.2: Monitoring Process States

1. Use **dd** to start a background process which reads from `/dev/urandom` and writes to `/dev/null`.
2. Check the process state. What should it be?
3. Bring the process to the foreground using the **fg** command. Then hit `Ctrl-Z`. What does this do? Look at the process state again, what is it?
4. Run the **jobs** program. What does it tell you?
5. Bring the job back to the foreground, then terminate it using **kill** from another window.

Solution 12.2

1.
```
$ dd if=/dev/urandom of=/dev/null &
```
2.
```
$ ps -C dd -o pid,cmd,stat
25899 dd if=/dev/urandom of=/dev/ R
```
Should be `S` or `R`.
3.
```
$ fg
$ ^Z
$ ps -C dd -o pid,cmd,stat
  PID CMD                         STAT
25899 dd if=/dev/urandom of=/dev/ T
```
State should be `T`.
4. Type the **jobs** command. What does it tell you?
```
$ jobs
[1]+  Stopped                 dd if=/dev/urandom of=/dev/null
```
5. Bring the job back to the foreground, then kill it using the **kill** command from another window.
```
$ fg
$ kill  25899
```

