

Operating Systems

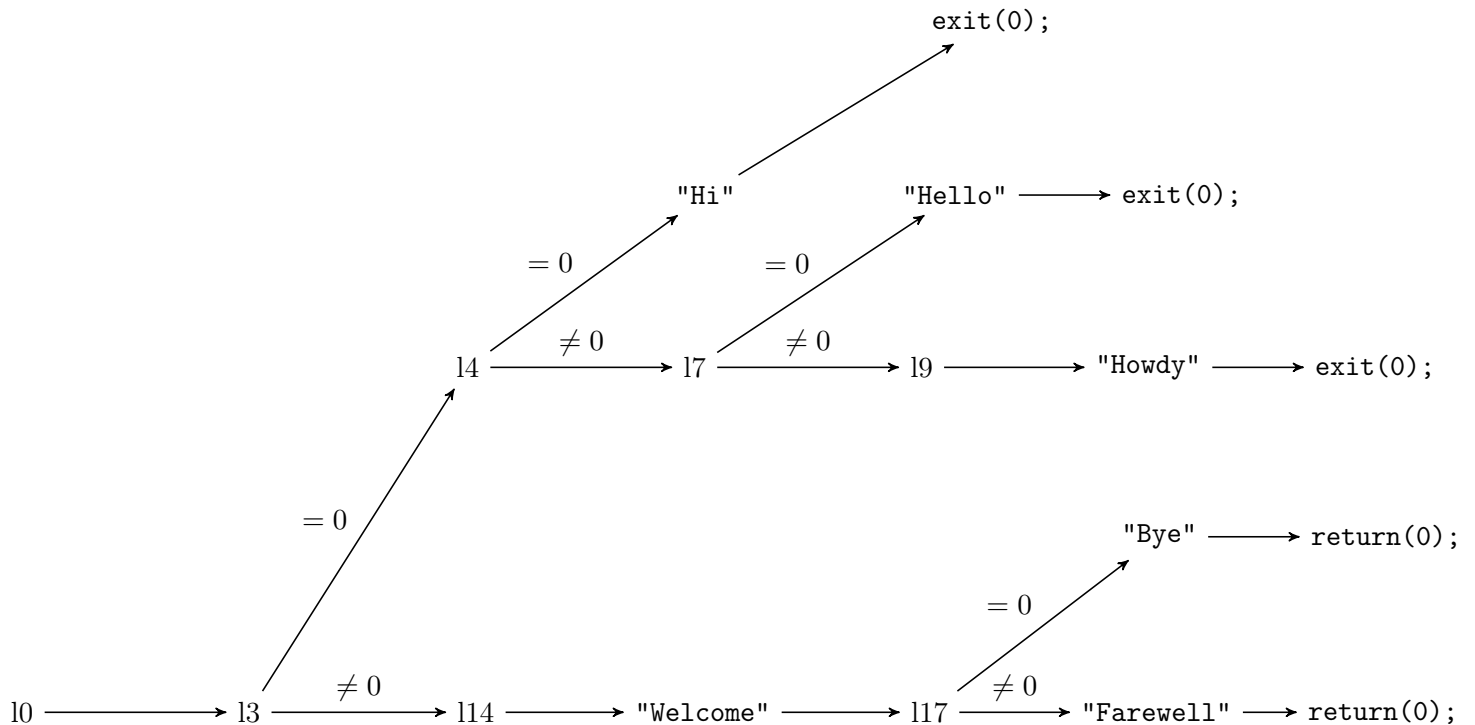
Assignment 3.5

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1.

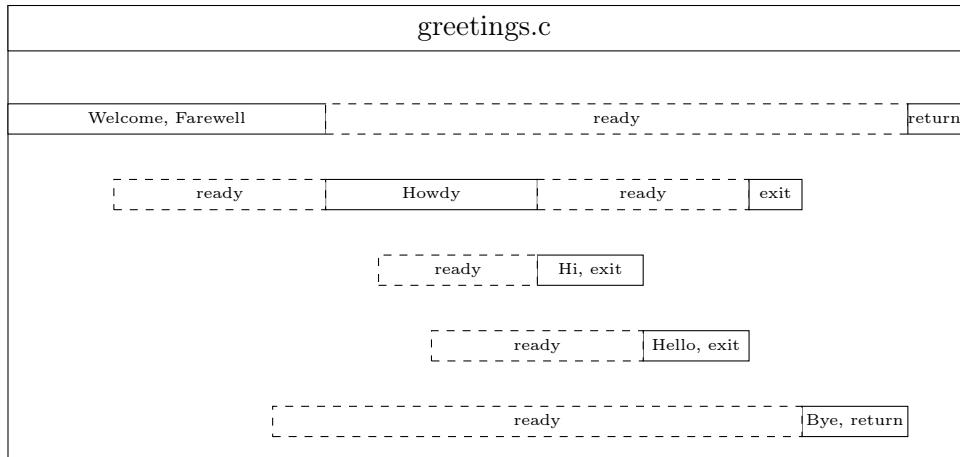
I don't know how to make cornered edges in a tikzpicture automata, but this should suffice. The numerics describe in which line we currently are, if there is an if or else block. Note that if `fork()` returns a value subzero, then the further execution of this path will fail and this picture will not make sense.



2.

- a) False
- b) True
- c) False
- d) False
- e) False
- f) True

3.



I used granttchart for this, which didn't enable me to use arrows that look good, but the diagram should still be self-explanatory.

In this chart, the dashed lines signal that a process is ready to execute, which also is hinted by their text inside.

The text inside the "normal" bars are either their output in `stdout` or their exit with `exit(0);` or `return 0;`