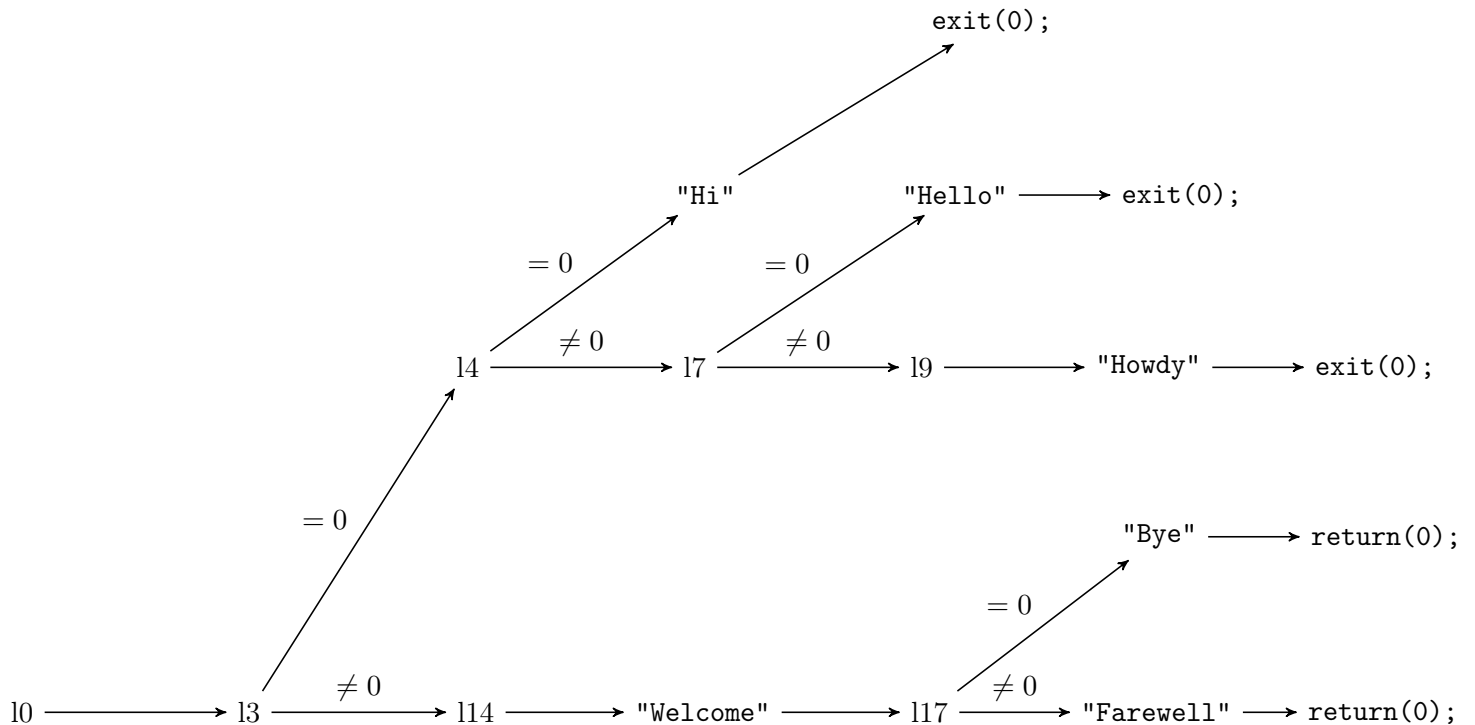# Operating Systems
Assignment 3.2

Henri Heyden, Nike Pulow
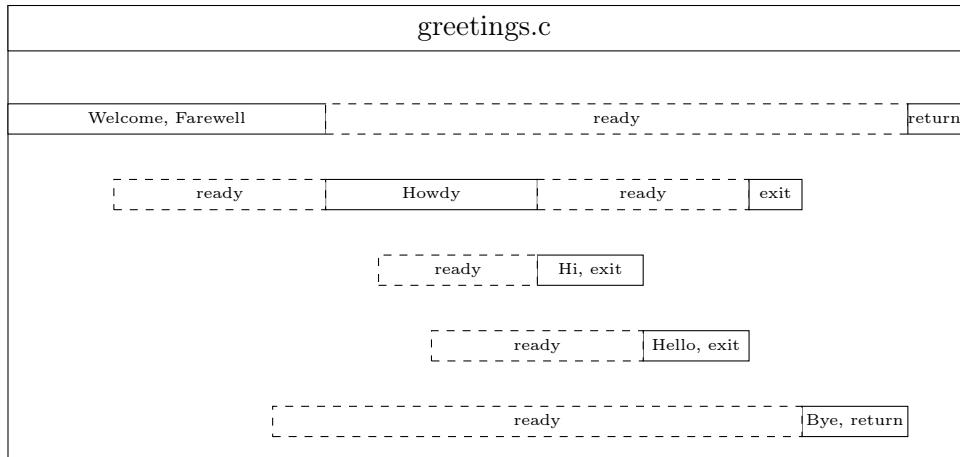
stu240825, stu239549

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.

greetings.c					
Welcome, Farewell	ready				return
	ready	Howdy	ready	exit	
		ready	Hi, exit		
		ready	Hello, exit		
		ready	Bye, return		

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;`