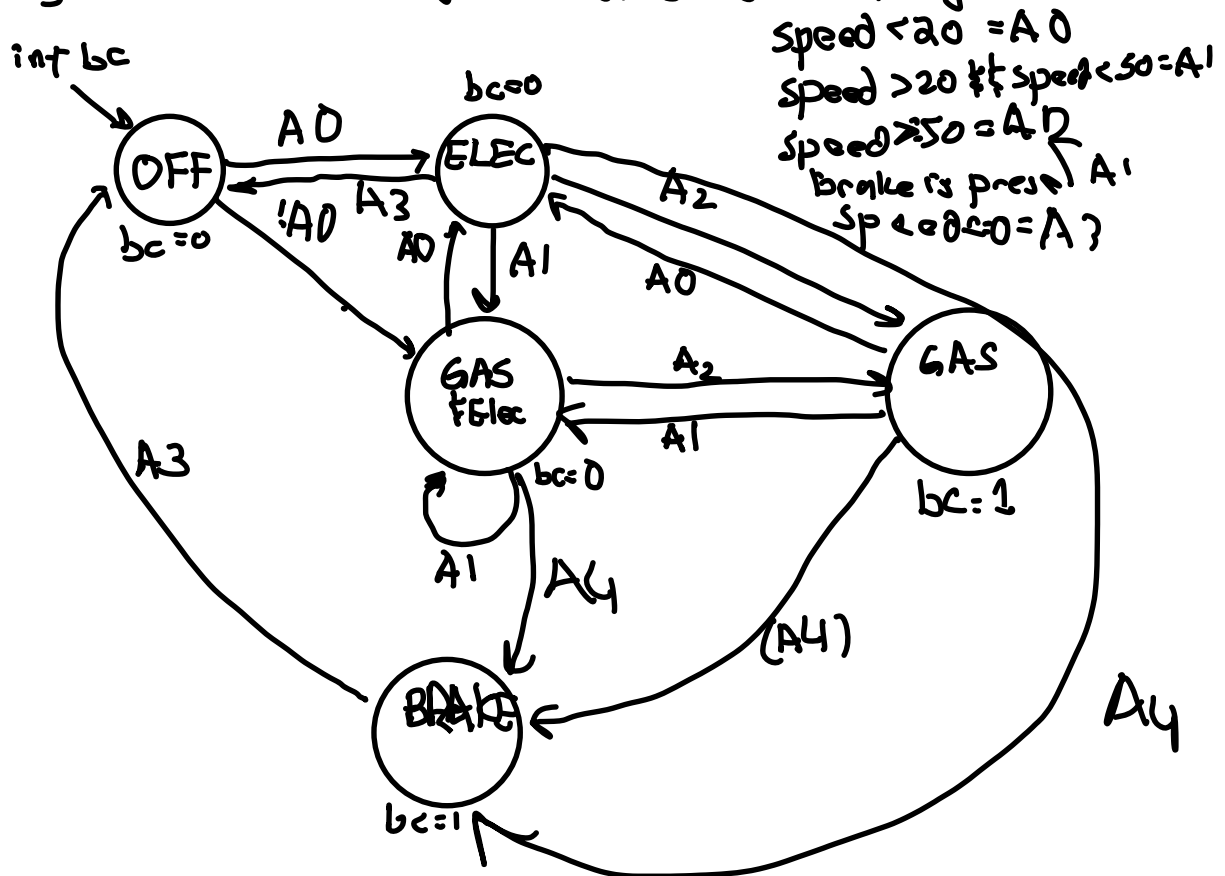


A system that could be implemented is the hybrid cars and how it knows when to use electric or gas as well as knowing when to recharge the electric battery



Source code attached

test vectors

```
11101 00011 00000
11100 00000 10000 10100
```

Use A to stimulate a normal drive.

including stopping

try all combination of 0 & 1 for `A0 - A4`.

A couple bugs is the ability to go from all off to `A2` being on and doing nothing which is physically impossible

And bugs out if `A3` `A2` `A1` & `A4` are all on at the same time.