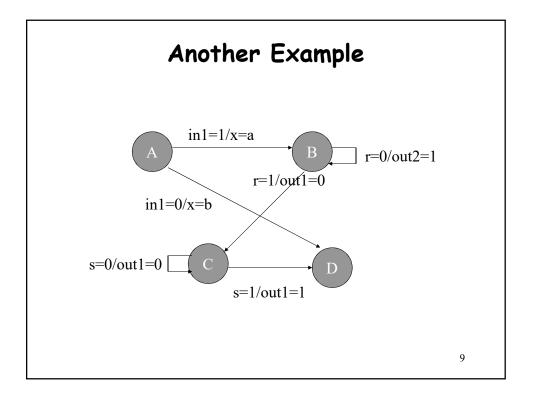


## C Implementation

```
#define IDLE 0
#define SEATED 1
#define BELTED 2
#define BUZZER 3
switch (state) {
   case IDLE: if (seat)
      { state = SEATED; timer_on = TRUE; }
      break;
   case SEATED: if (belt) state = BUZZER;
      break;
   ...
}
```



## C State Table

```
switch (state) {
case A: if (in1==1) { x = a; state = B; }
else { x = b; state = D; }
break;
case B: if (r==0) { out2 = 1; state = B;
}
else { out1 = 0; state = C; }
break;
case C: if (s==0) { out1 = 0; state = C;
}
else { out1 = 1; state = D; }
break;
```

