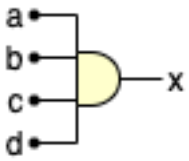
Jackson Diamond

Section 3-2, #8

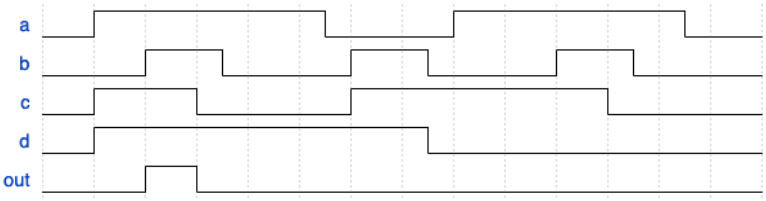



Code for logic gate:

```
{
  "assign":
          [
                  ["x",["&","a","b","c","d"]]
          ]
}
```

Code for timing diagram:

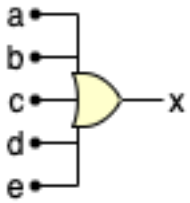
```
{ signal: [
  { name: 'a', wave: 'lh...pl.h...pl' },
  { name: 'b', wave: 'l.hpl.hpl.hpl.' },
  { name: 'c', wave: 'lh.l..h....l..' },
  { name: 'd', wave: 'lh.....pl.....' },
  { name: 'out', wave: 'l.hl.........' },
]}
```

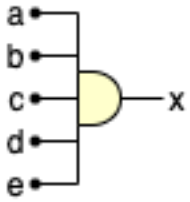



Section 3-3, #14

Code for logic gates:

```
{

  "assign":

          [

                  ["x",["|","a","b","c","d","e"]]

          ]

}

{

  "assign":

          [

                  [“x",["&","a","b","c","d","e"]]

          ]

}
```

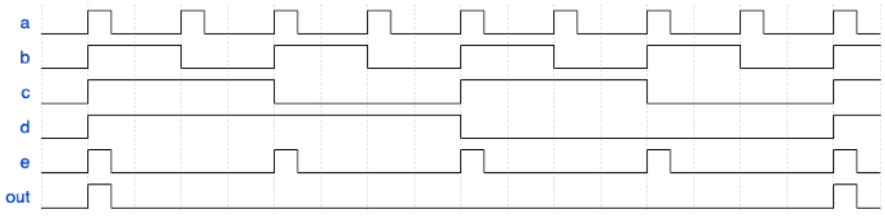



Code for timing diagrams:

And:

```
{ signal: [
  { name: 'a', wave: 'lplplplplplplplp' },
  { name: 'b', wave: 'lh.l.h.l.h.l.h.l.h' },
  { name: 'c', wave: 'lh...l...h...l...h' },
  { name: 'd', wave: 'lh.......l.......h' },
```

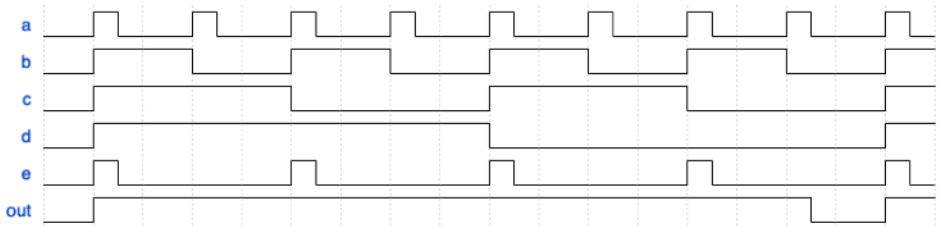


Jackson Diamond

```
  { name: 'e', wave: 'lpl..pl..pl..pl..p' },
  { name: 'out', wave: 'lpl.............p' },
]}
```

Or:

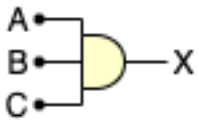
```
{ signal: [
  { name: 'a', wave: 'lplplplplplplplp' },
  { name: 'b', wave: 'lh.l.h.l.h.l.h.l.h' },
  { name: 'c', wave: 'lh...l...h...l...h' },
  { name: 'd', wave: 'lh.......l.......h' },
  { name: 'e', wave: 'lpl..pl..pl..pl..p' },
  { name: 'out', wave: 'lh…….plh' },
]}
```




Section 3-4, #18

Code for the logic gate:

```
{
  "assign":
          [
                  ["X",["&","A","B","C"]]
          ]
}
```




Code for the timing diagram:

```
{ signal: [
  { name: 'a', wave: 'lh..pnh..pnh..pnh' },
  { name: 'b', wave: 'l..h...l...nh..l.' },
  { name: 'c', wave: 'lnlnlnlnl.plplpnl' },
  { name: 'out', wave: 'l..nlnl.....plpl.' },
]}
```