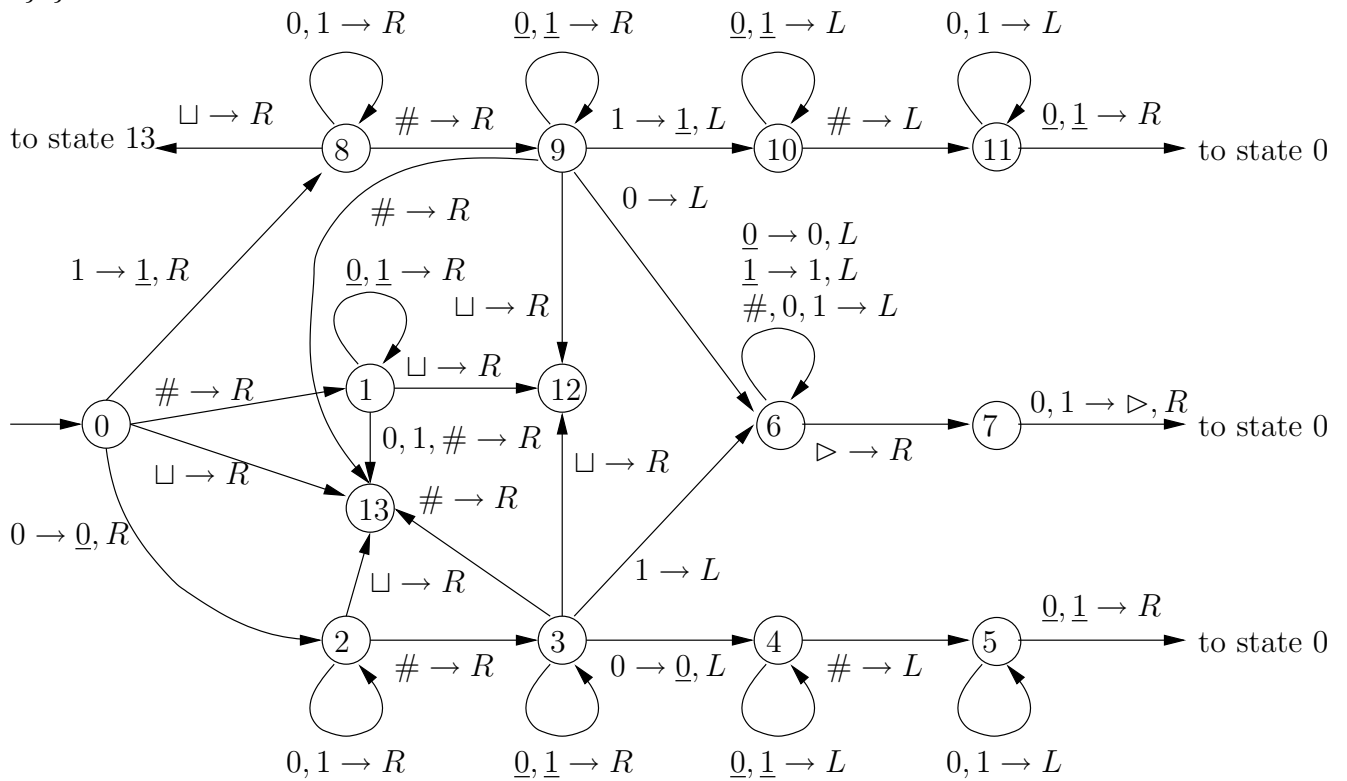


YUTMFF Example

The York University Turing Machine File Format (YUTMFF) is described in assignment 6. Here is an example of encoding a Turing machine using that format.

Consider the following Turing machine, which decides the language $\{uvw\#v : u, v, w \in \{0, 1\}^*\}$.



It can be encoded as the following file in YUTMFF.

```

14 7 3
0 1 # 0_ 1_
41
0 0 2 0_ R
0 1 8 1_ R
0 # 1 # R
0 blank 13 blank R
1 0 13 0 R
1 1 13 1 R
1 blank 12 blank R
2 # 3 # R
2 blank 13 blank R
3 0 4 0_ L
3 1 6 1 L
3 # 13 # R
    
```

```
3 blank 12 blank R
4 0_ 4 0_ L
4 1_ 4 1_ L
4 # 5 # L
5 0 5 0 L
5 1 5 1 L
5 0_ 0 0_ R
5 1_ 0 1_ R
6 0_ 6 0 L
6 1_ 6 1 L
6 # 6 # L
6 0 6 0 L
6 1 6 1 L
6 leftend 7 leftend R
7 0 0 leftend R
7 1 0 leftend R
8 blank 13 blank R
8 # 9 # R
9 0 6 0 L
9 1 10 1_ L
9 # 13 # R
9 blank 12 blank R
10 0_ 10 0_ L
10 1_ 10 1_ L
10 # 11 # L
11 0 11 0 L
11 1 11 1 L
11 0_ 0 0_ R
11 1_ 0 1_ R
```