$$S = \{D, N, P, V\}$$

	The	man	saw	the	dog	with	the	telescope
* *	1	2	3	4	5	6	7	8

```
      D    D    D    D    D    P — D
      N    N    N    N    N
      V    V    V    V    V
      P    P    P    P    P
```
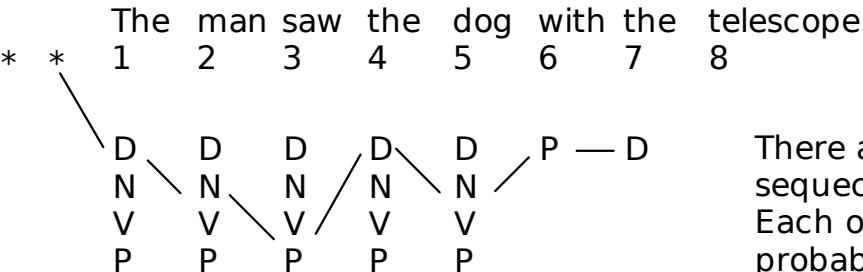
There are many possible sequeces of tags.
Each of these will have a probability calculated from parameters q and e.

$\Pi(7, P, D) =$ This is the maxmimum probability of any of those tag sequences ending in P D at position 7, the path represents the sequence with the maximum probability.