

## # COMP9315 21T1 Final Exam Q4

Type your answer(s) to replace the xxx's  
Submit this file as your answer for Q4

State before inserting 'e'

[0] a,b,c -> d

d=0 sp = 0

State after splitting and inserting 'e'

[0] b,d

[1] a,c,e

d=1 sp = 0

State before inserting 'j'

[0] b,d,f -> h

[1] a,c,e -> g,i

d=1 sp = 0

State after splitting and inserting 'j'

[0] d,h

[1] a,c,e -> g,i

[2] b,f,j

d=1 sp = 1

State before inserting 'o'

[0] d,h,l

[1] a,c,e -> g,i,k -> m

[2] b,f,j -> n

d=1 sp = 1

State after splitting and inserting 'o'

[0] d,h,l

[1] a,e,i -> m

[2] b,f,j -> n

[3] c,g,k -> o

d=2 sp = 0

State before inserting 't'

```
[0] d,h,l -> p,s
[1] a,e,i -> m,q
[2] b,f,j -> n,r
[3] c,g,k -> o
```

d=2 sp = 0

State after splitting and inserting 't'

```
[0] h,p
[1] a,e,i -> m,q,t
[2] b,f,j -> n,r
[3] c,g,k -> o
[4] d,l,s
```

d=2 sp = 1

State after inserting 'x'

```
[0] h,p
[1] a,e,i -> m,q,t -> x
[2] b,f,j -> n,r,u -> w
[3] c,g,k -> o,v
[4] d,l,s
```

d=2 sp = 1