| Order 4 | Order 3 | Order 2 | Order 1 | Order 0 |
|---|---|---|---|---|
| xyzz→x 2 | xyz→z 2 | xy→z 2 | x→y 3 | x 4 |
| yzzx→y 1 | yzz→x 2 | →x 1 | y→z 2 | y 3 |
| zzxy→x 1 | zzx→y 1 | yz→z 2 | →x 1 | z 4 |
| zxyx→y 1 | zxy→x 1 | zz→x 2 | z→z 2 | |
| xyxy→z 1 | xyx→y 1 | zx→y 1 | →x 2 | |
| yxyz→z 1 | yxy→z 1 | yx→y 1 | | |

(a)

| Order 4 | Order 3 | Order 2 | Order 1 | Order 0 |
|---|---|---|---|---|
| xyzz→x 2 | xyz→z 2 | xy→z 2 | x→y 3 | x 4 |
| yzzx→y 1 | yzz→x 2 | xy→x 1 | →z 1 | y 3 |
| →z 1 | zzx→y 1 | yz→z 2 | y→z 2 | z 5 |
| zzxy→x 1 | →z 1 | zz→x 2 | →x 1 | |
| zxyx→y 1 | zxy→x 1 | zx→y 1 | z→z 2 | |
| xyxy→z 1 | xyx→y 1 | →z 1 | →x 2 | |
| yxyz→z 1 | yxy→z 1 | yx→y 1 | | |

(b)

Table 2.71: (a) Contexts and Counts for "xyzzxyxyzzx". (b) Updated After Another z Is Input.

| Order 2 | | | Order 1 | | | | Order 0 | | |
|---|---|---|---|---|---|---|---|---|---|
| Context | $f$ | $p$ | Context | | $f$ | $p$ | Symbol | $f$ | $p$ |
| as→s | 2 | 2/3 | a→ | s | 2 | 2/5 | a | 4 | 4/19 |
| esc | 1 | 1/3 | a→ | n | 1 | 1/5 | s | 6 | 6/19 |
| | | | esc→ | | 2 | 2/5 | n | 1 | 1/19 |
| ss→a | 2 | 2/5 | | | | | i | 2 | 2/19 |
| ss→i | 1 | 1/5 | s→ | s | 3 | 3/9 | m | 1 | 1/19 |
| esc | 2 | 2/5 | s→ | a | 2 | 2/9 | esc | 5 | 5/19 |
| | | | s→ | i | 1 | 1/9 | | | |
| sa→n | 1 | 1/2 | esc | | 3 | 3/9 | | | |
| esc | 1 | 1/2 | | | | | | | |
| | | | n→ | i | 1 | 1/2 | | | |
| an→i | 1 | 1/2 | esc | | 1 | 1/2 | | | |
| esc | 1 | 1/2 | | | | | | | |
| | | | i→ | s | 1 | 1/4 | | | |
| ni→s | 1 | 1/2 | i→ | m | 1 | 1/4 | | | |
| esc | 1 | 1/2 | esc | | 2 | 2/4 | | | |
| | | | | | | | | | |
| is→s | 1 | 1/2 | m→ | a | 1 | 1/2 | | | |
| esc | 1 | 1/2 | esc | | 1 | 1/2 | | | |
| | | | | | | | | | |
| si→m | 1 | 1/2 | | | | | | | |
| esc | 1 | 1/2 | | | | | | | |
| | | | | | | | | | |
| im→a | 1 | 1/2 | | | | | | | |
| esc | 1 | 1/2 | | | | | | | |
| | | | | | | | | | |
| ma→s | 1 | 1/2 | | | | | | | |
| esc | 1 | 1/2 | | | | | | | |

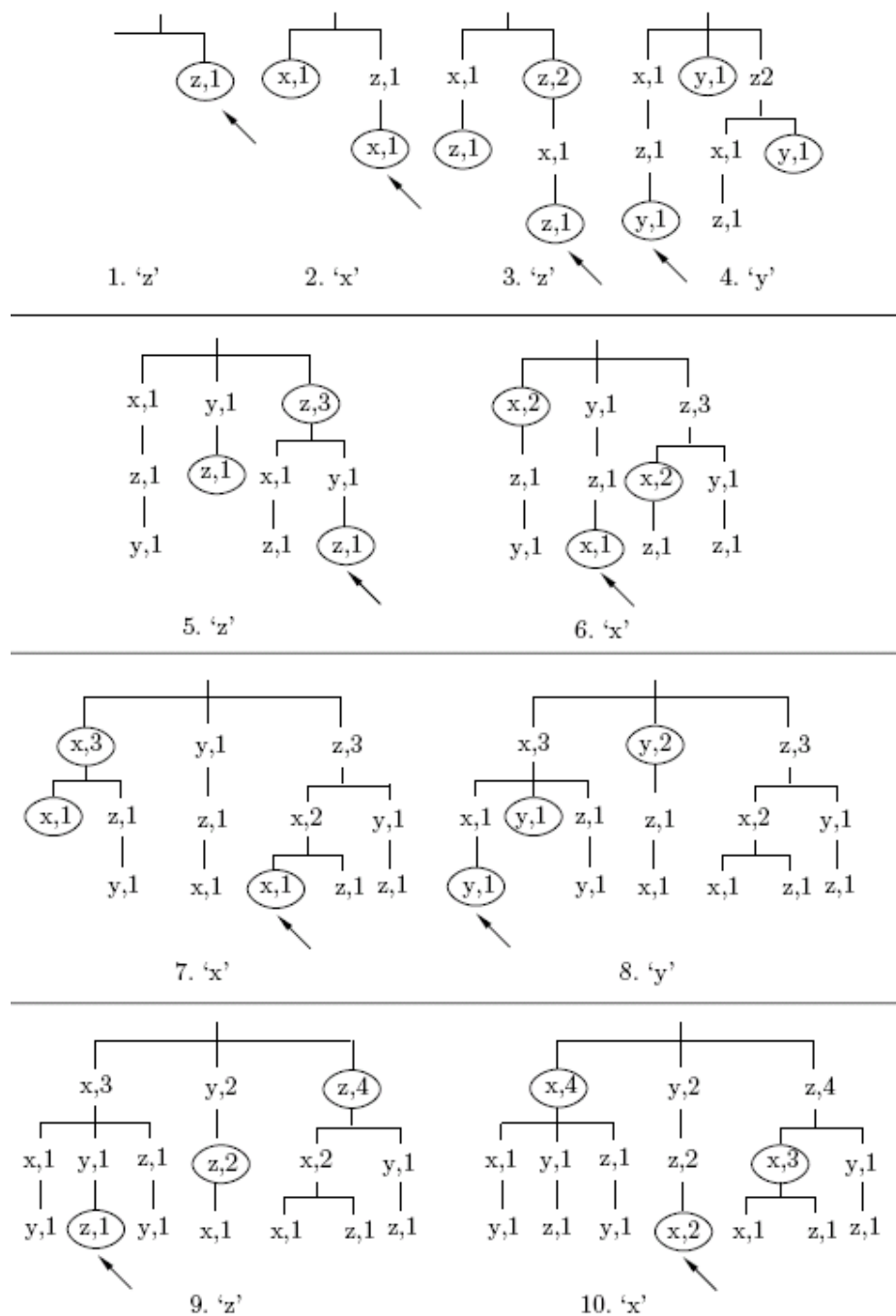Table 2.72: Contexts, Counts ($f$), and Probabilities ($p$) for "assanissimassa".

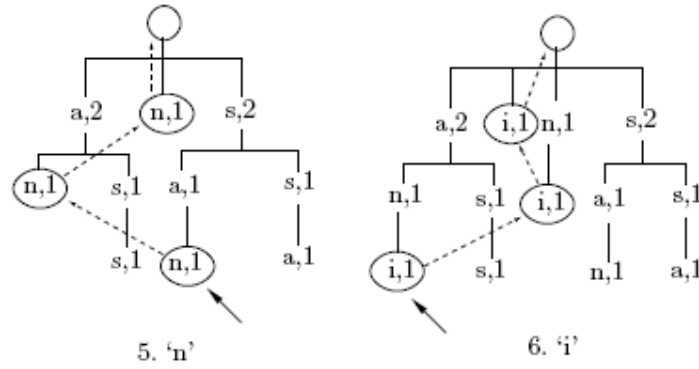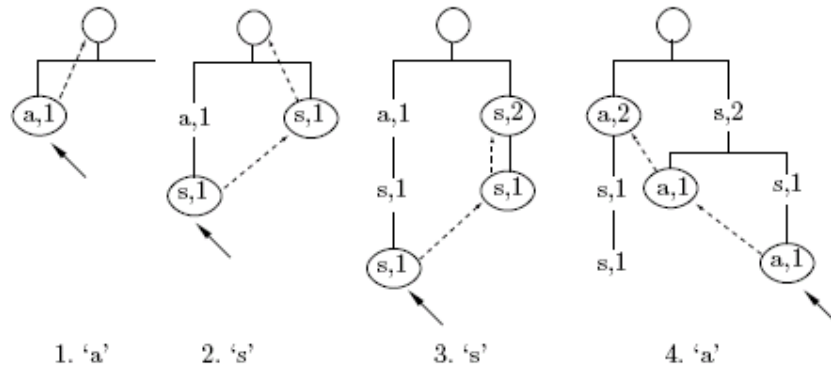Figure 2.73: Ten Tries of "zxzyzxxyzx".

1. 'a'  2. 's'  3. 's'  4. 'a'

5. 'n'  6. 'i'

Figure 2.74: Part I. First Six Tries of "assanissimassa".



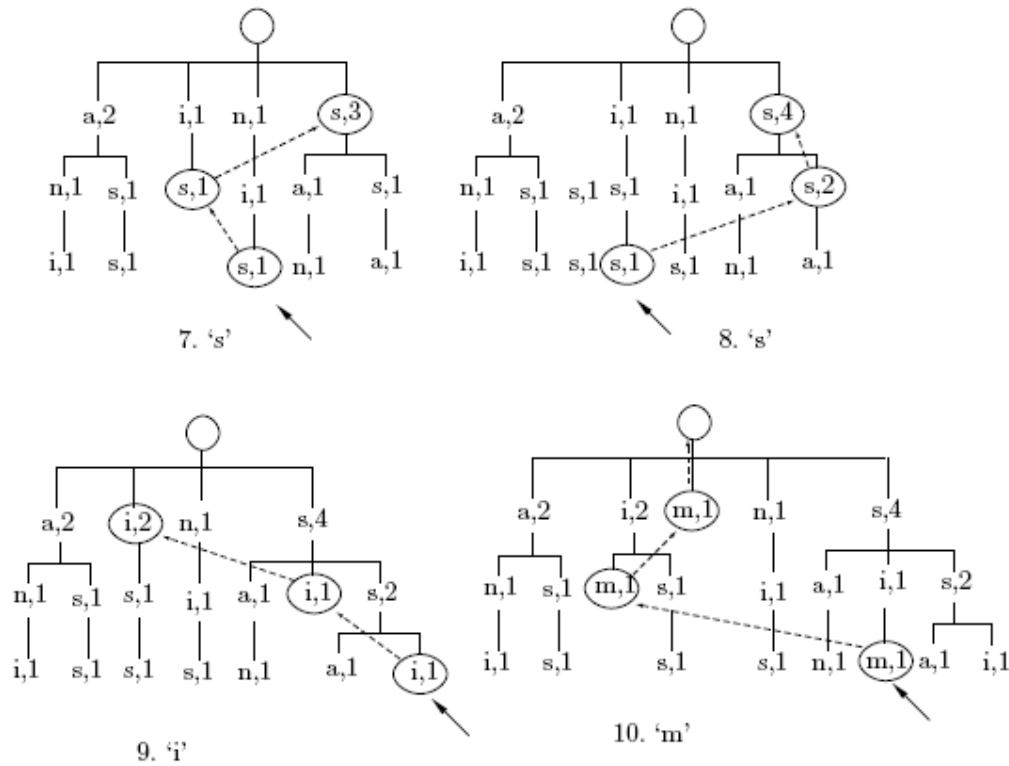7. 's'  8. 's'

9. 'i'  10. 'm'

Figure 2.74: (Continued) Next Four Tries of "assanissimassa".

13. 's'



14. 'a'

Figure 2.74: (Continued) Final Two Tries of "assanissimassa".