

Tries



Basics

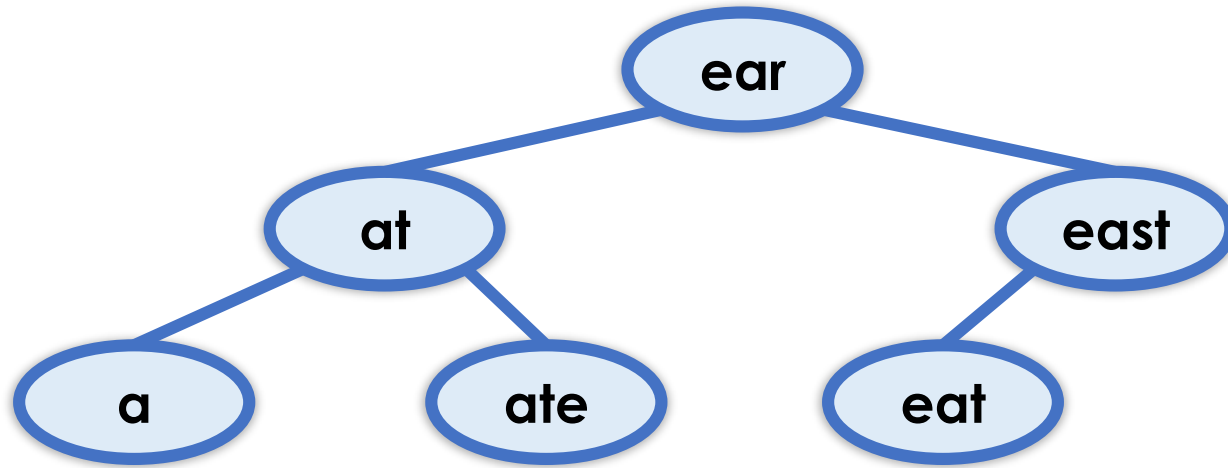


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by Christine Alvarado, Mia Minnes, and Leo Porter, 2015.**

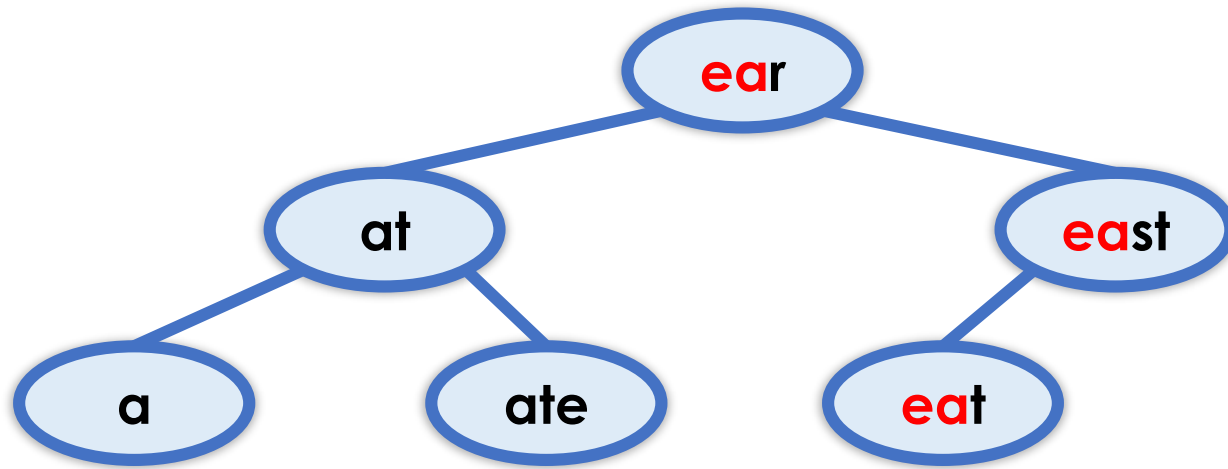
By the end of this video you will be able to...

- Explain what a trie data structure is
- Describe the algorithm for finding keys in and adding keys to a trie

Storing a dictionary as a (balanced) BST

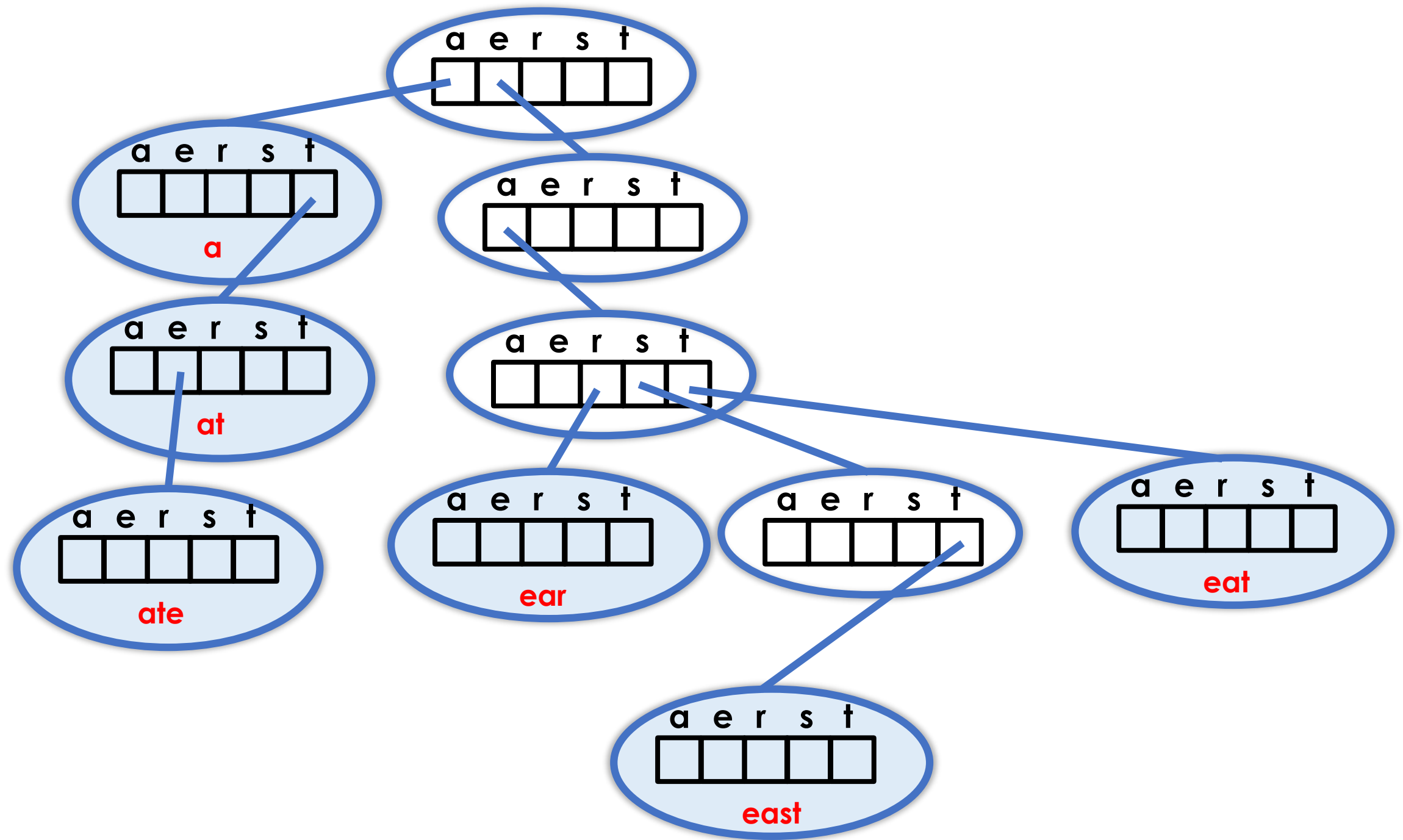


BSTs don't take advantage of shared structure



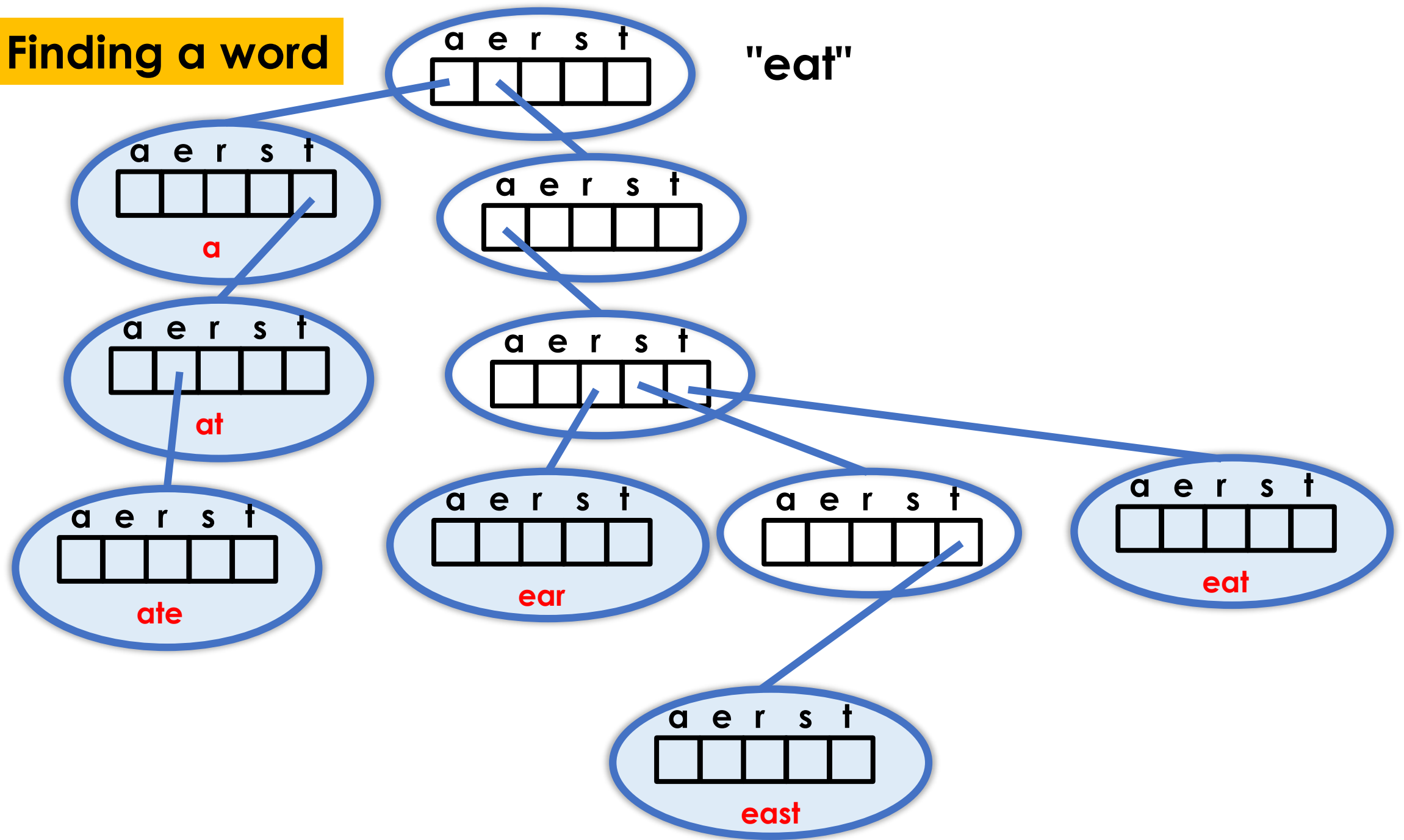


**Tries: Use the key
to navigate the search**

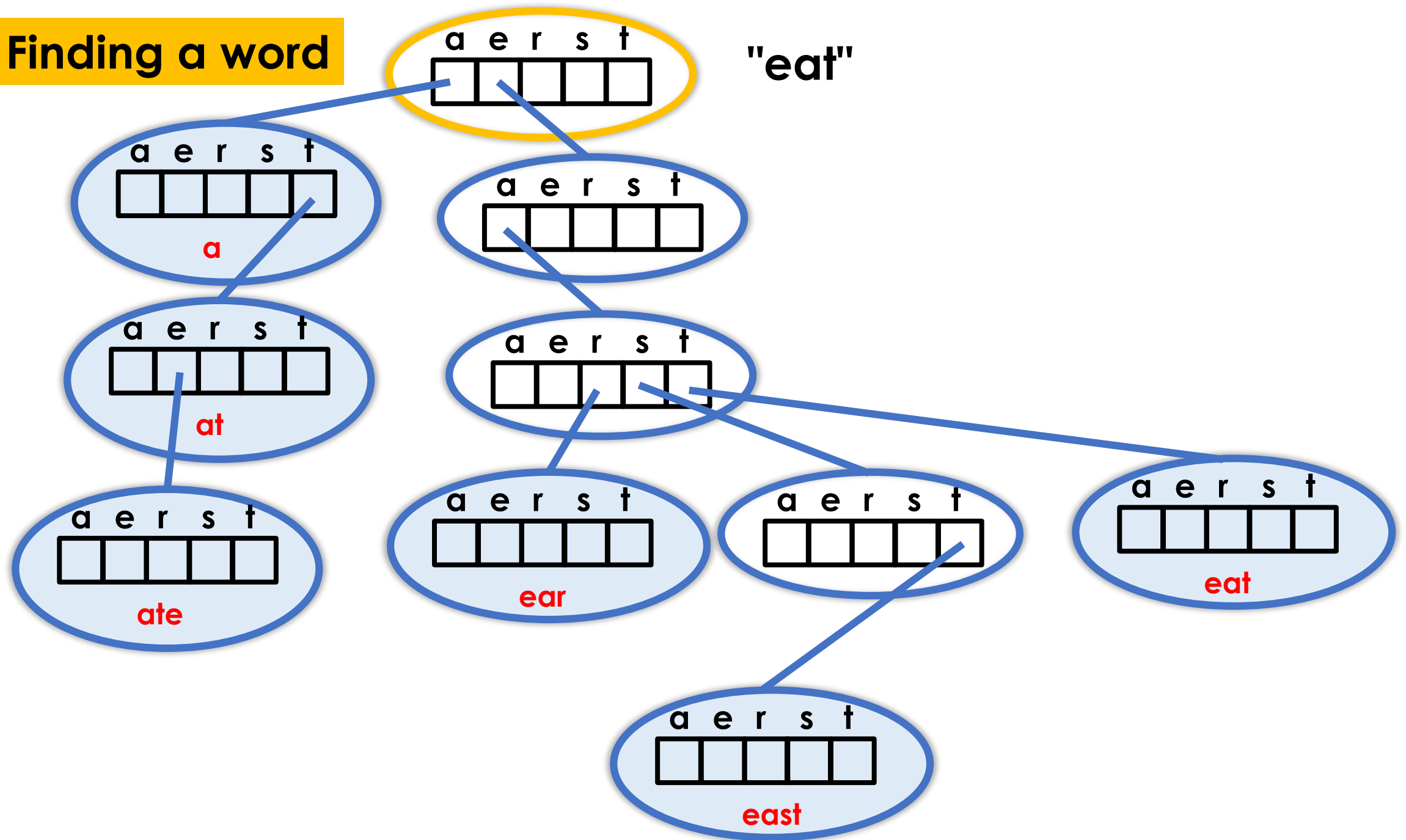


Finding a word

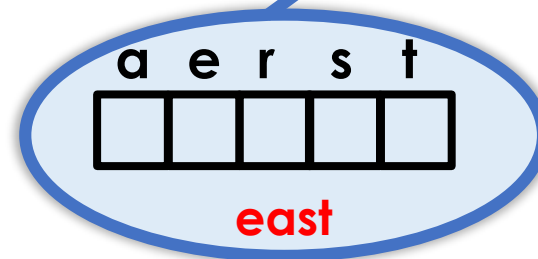
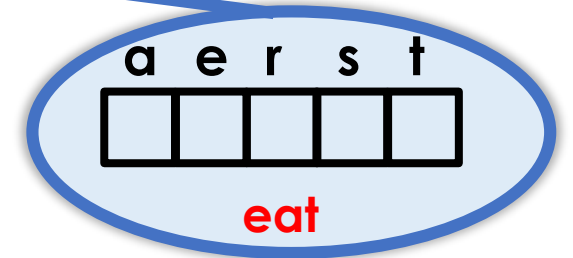
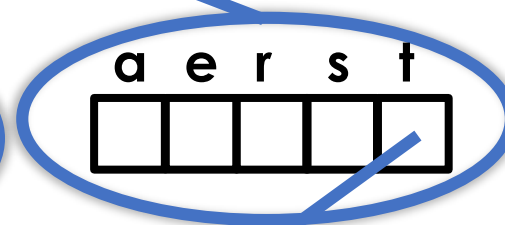
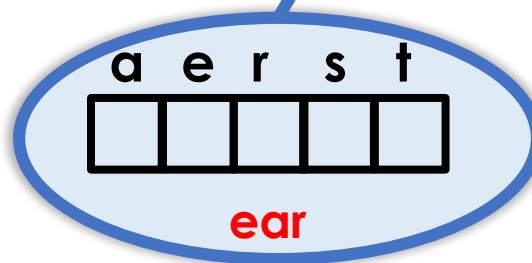
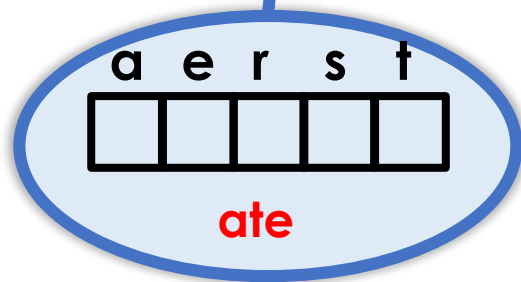
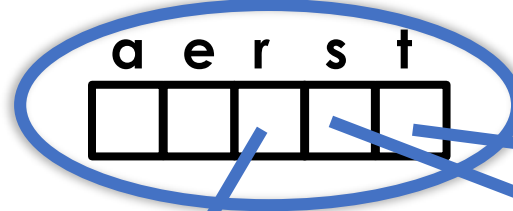
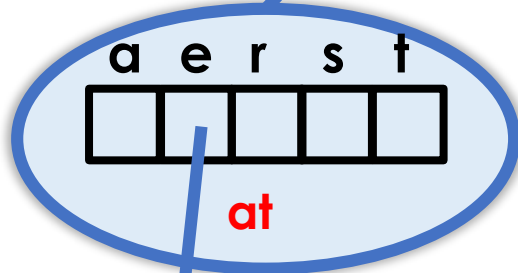
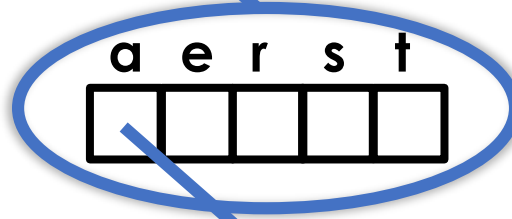
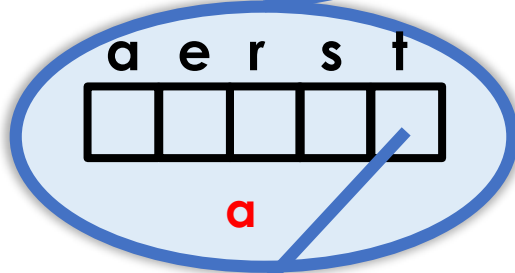
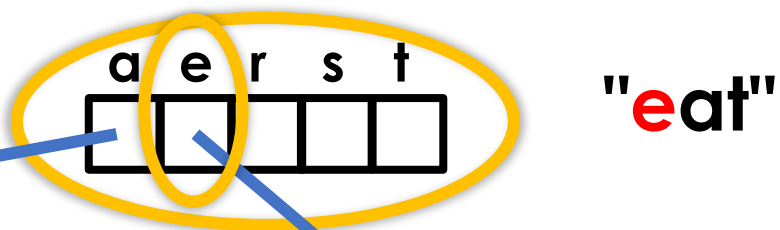
"eat"



Finding a word

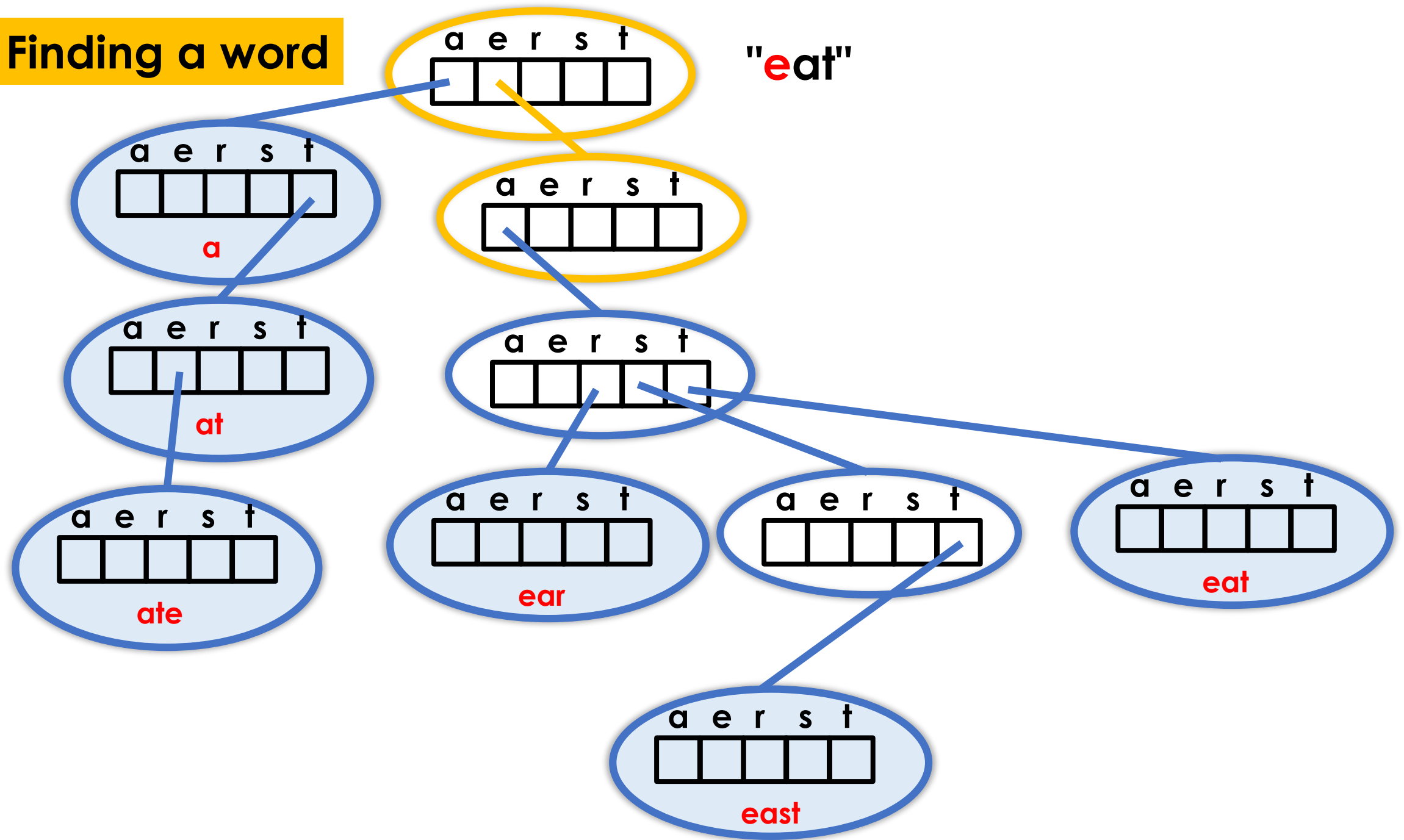


Finding a word



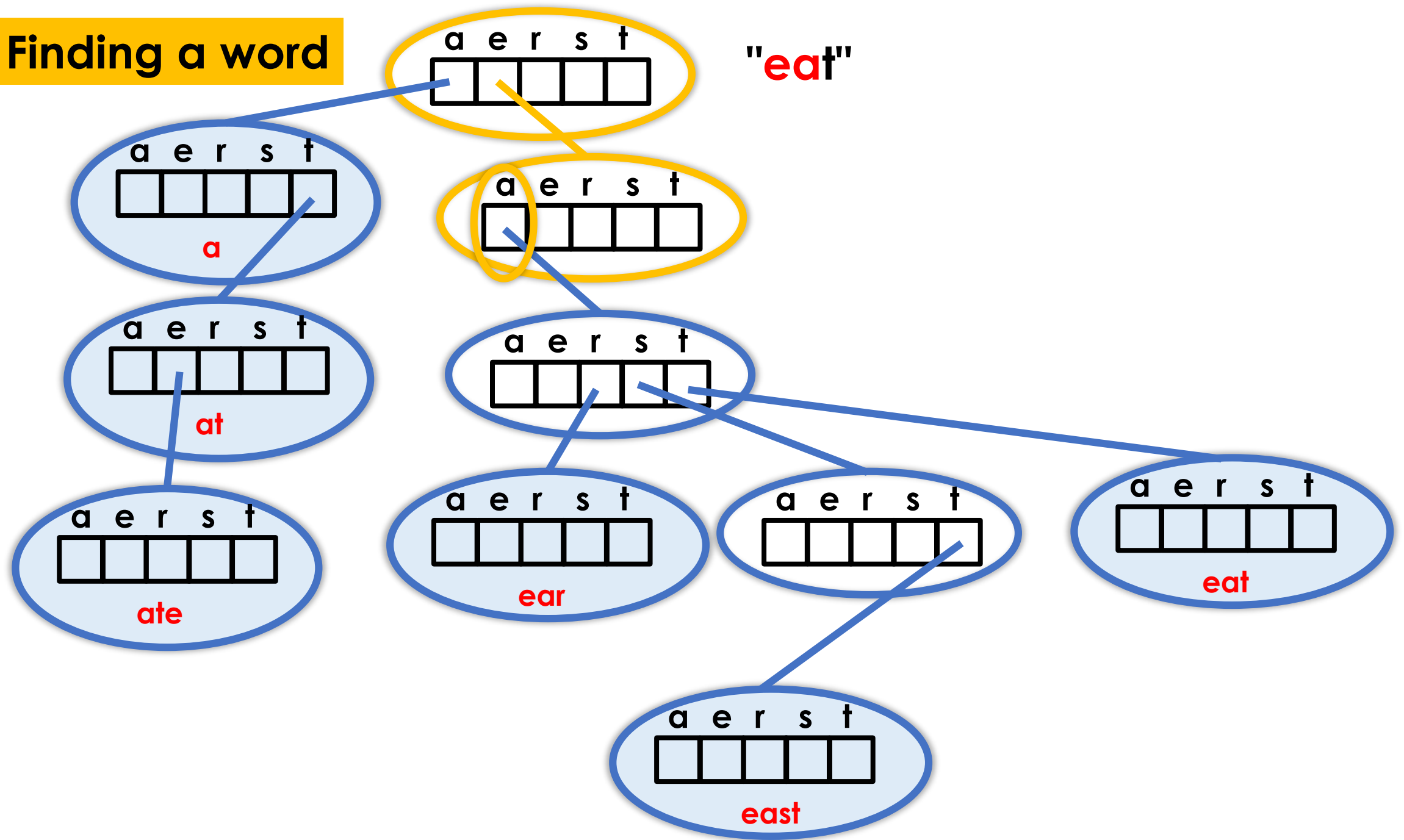
Finding a word

"eat"



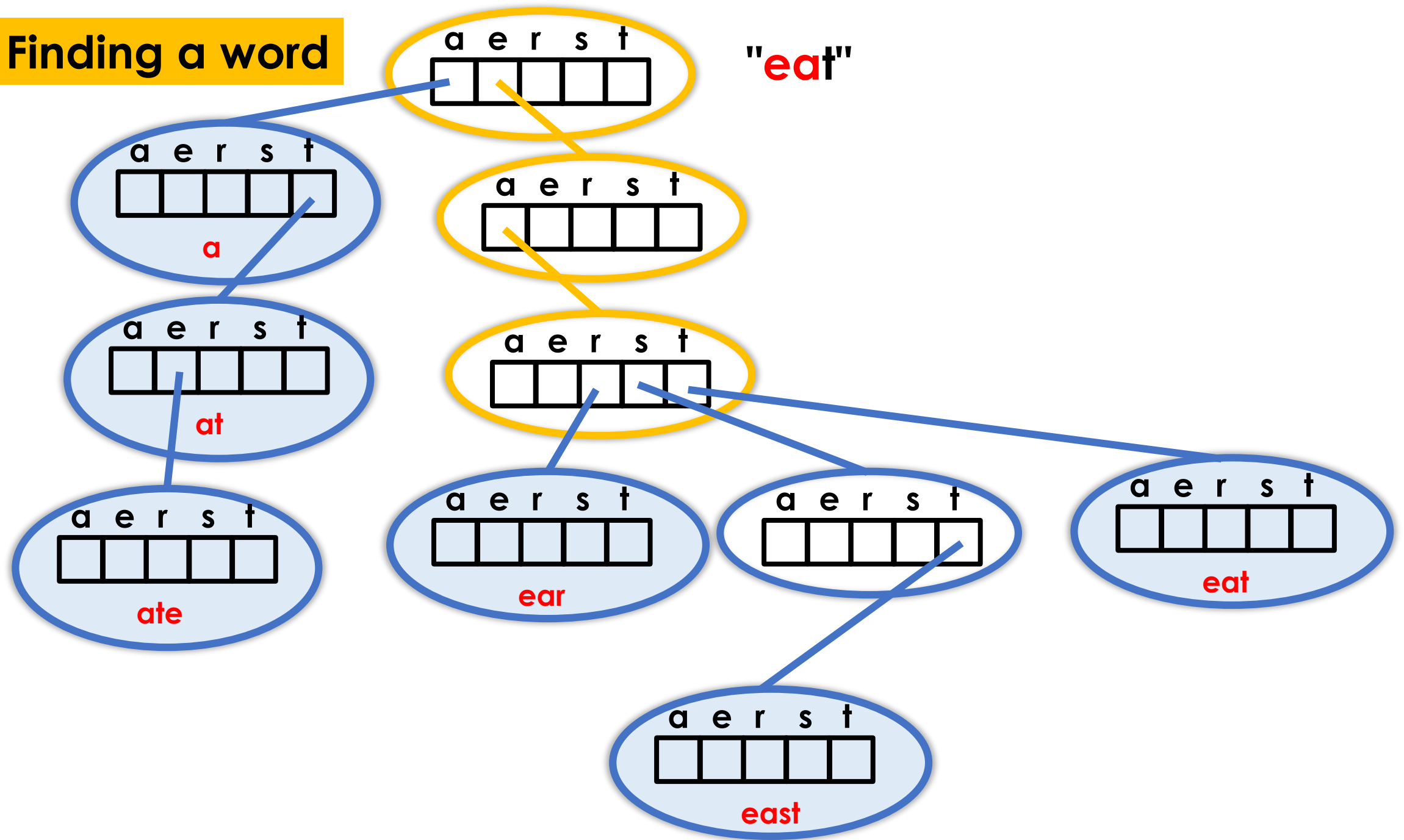
Finding a word

"eat"



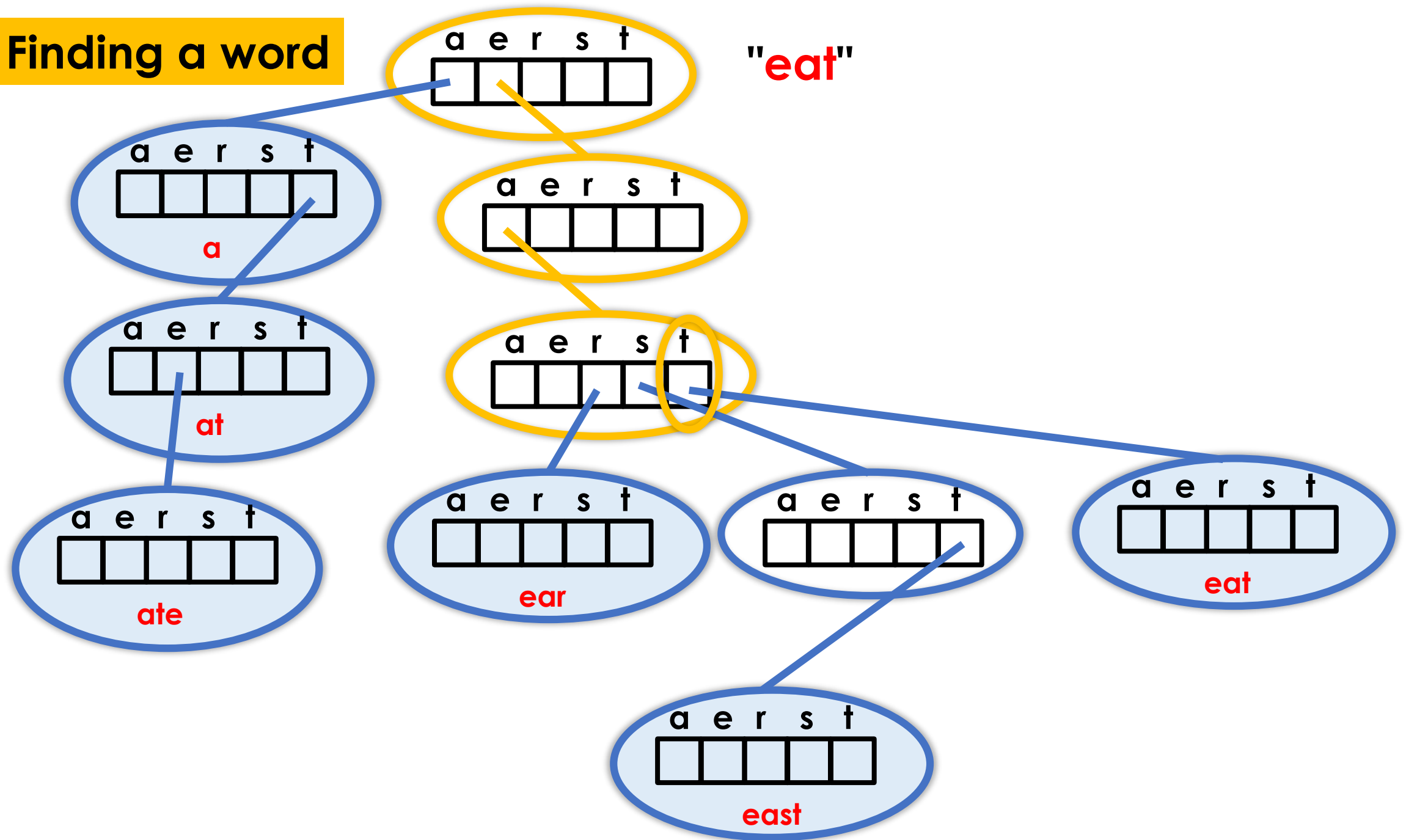
Finding a word

"eat"

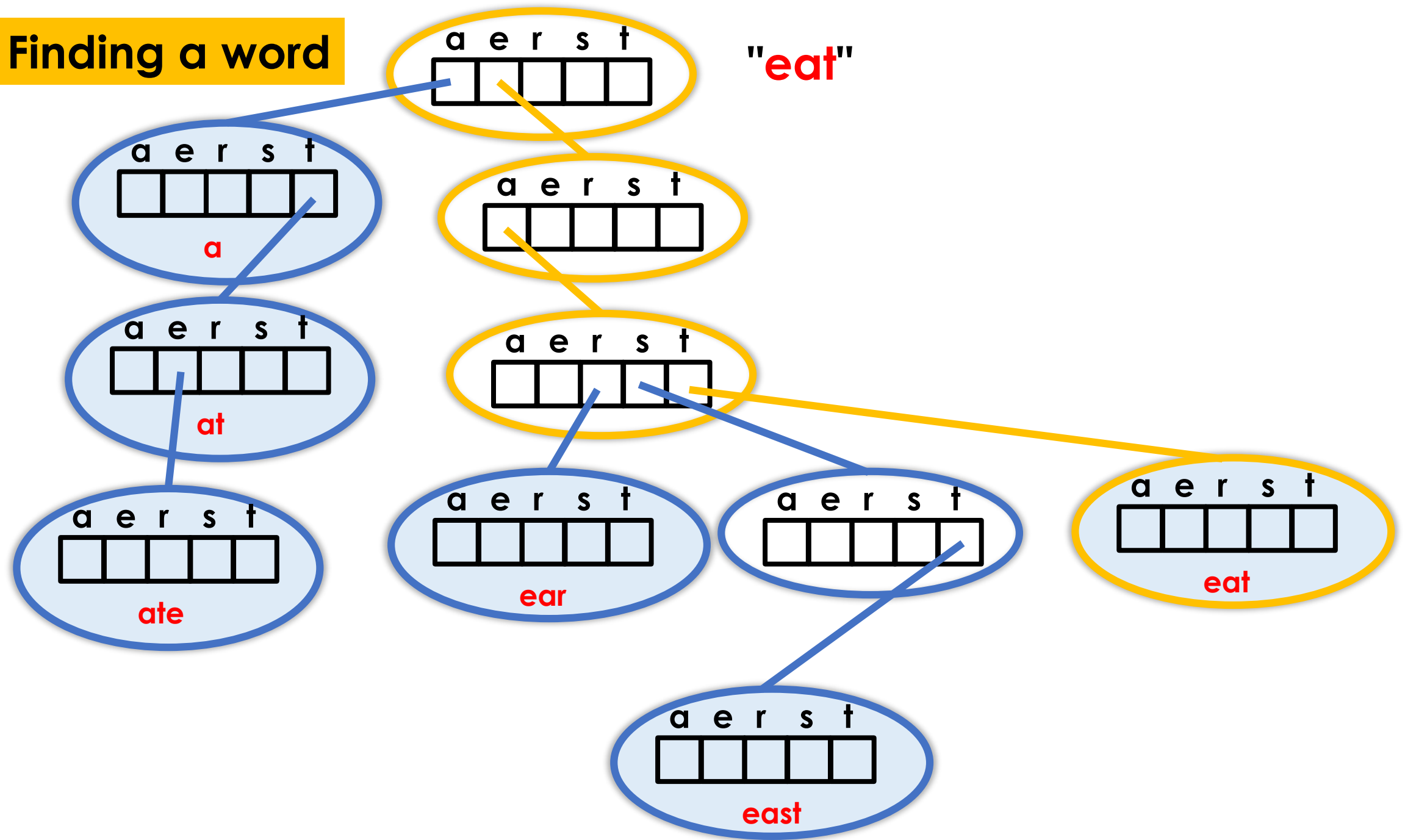


Finding a word

"eat"

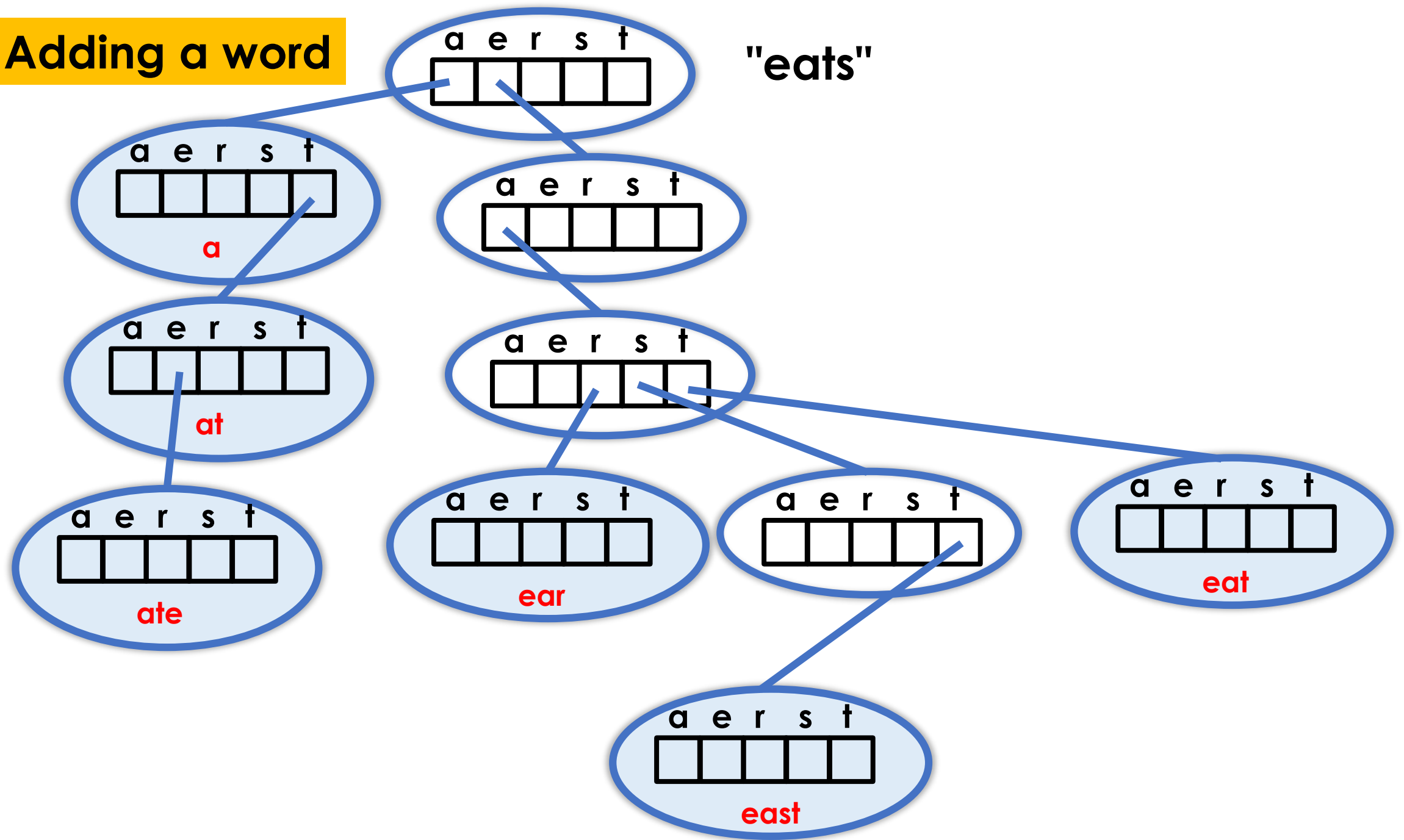


Finding a word



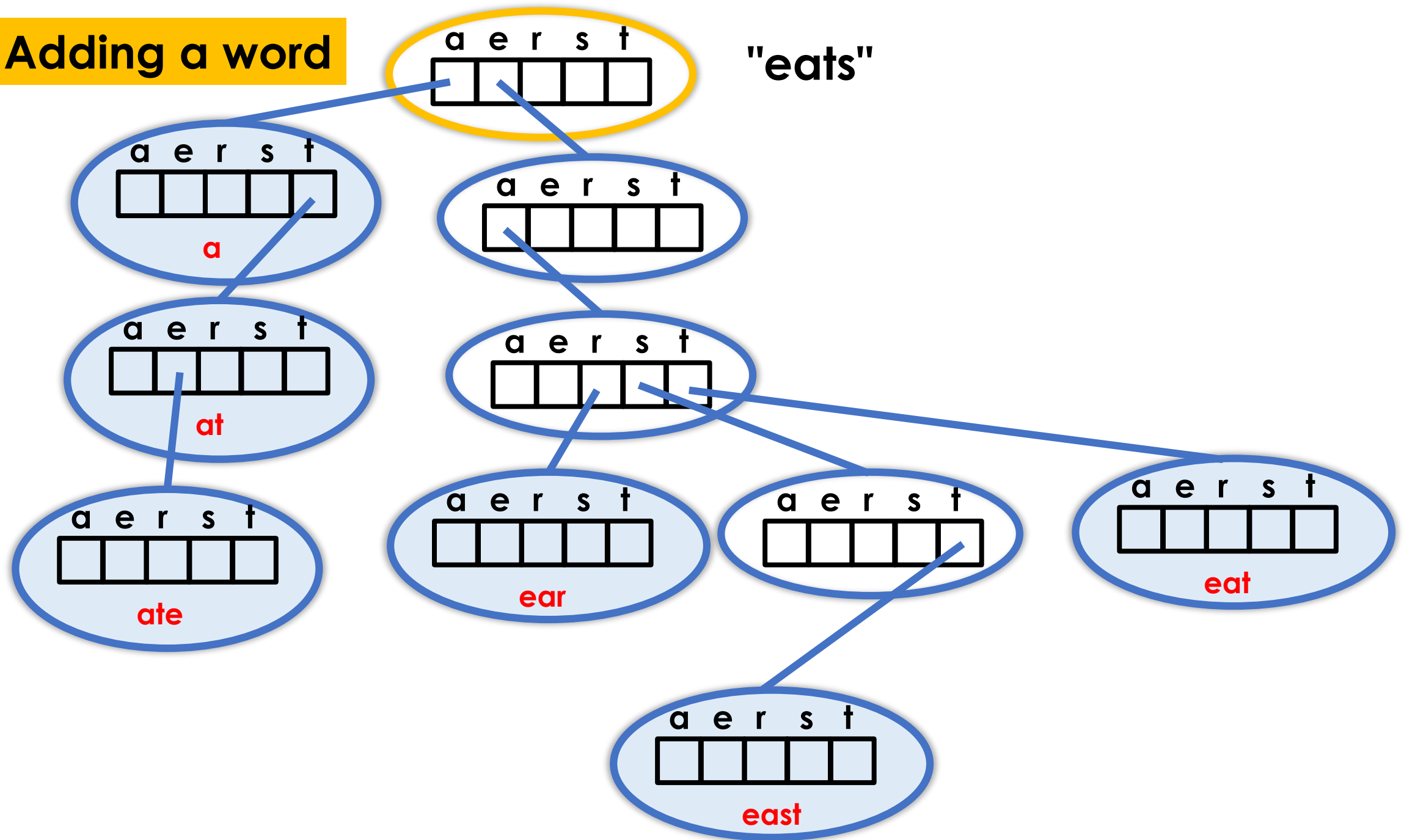
Adding a word

"eats"



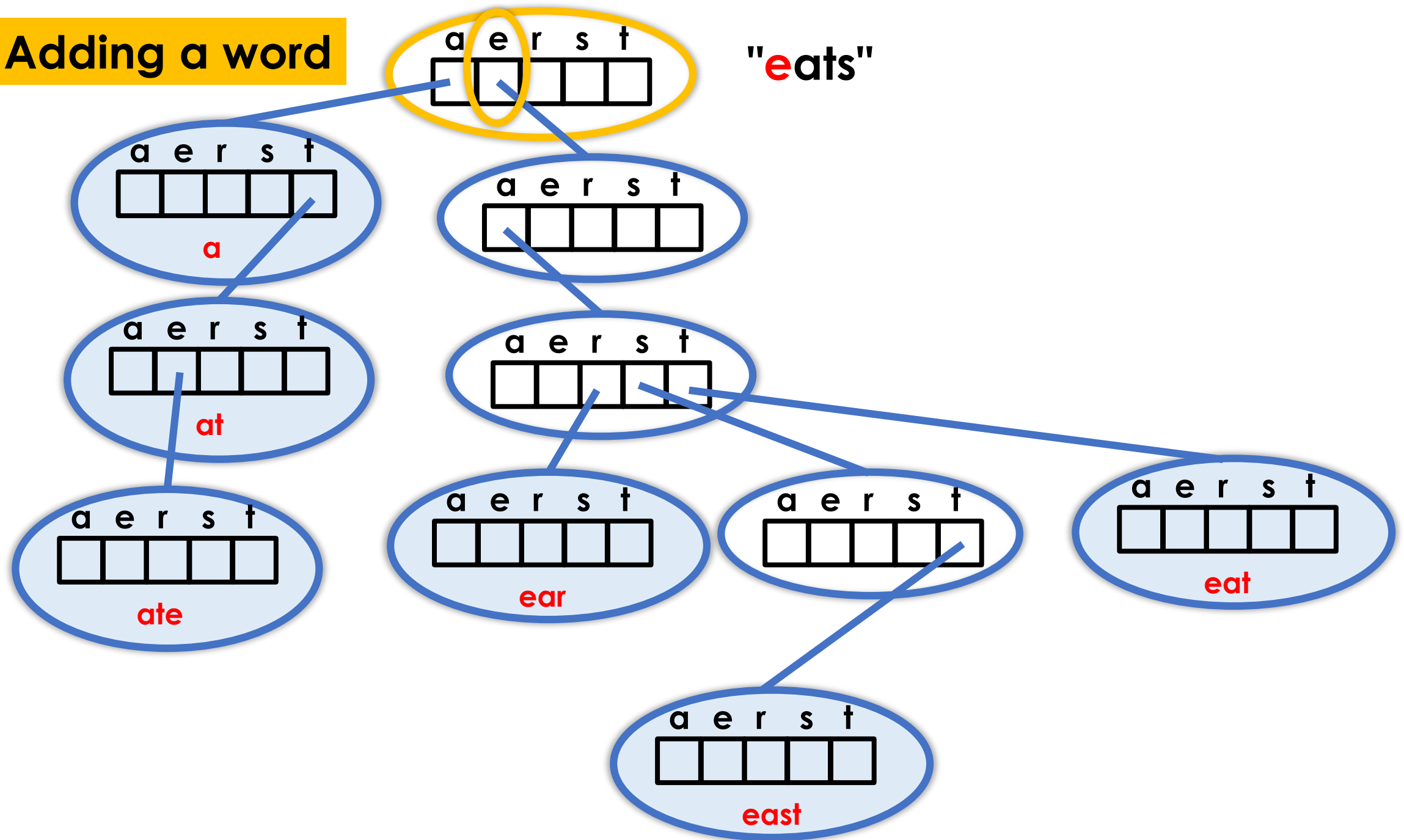
Adding a word

"eats"



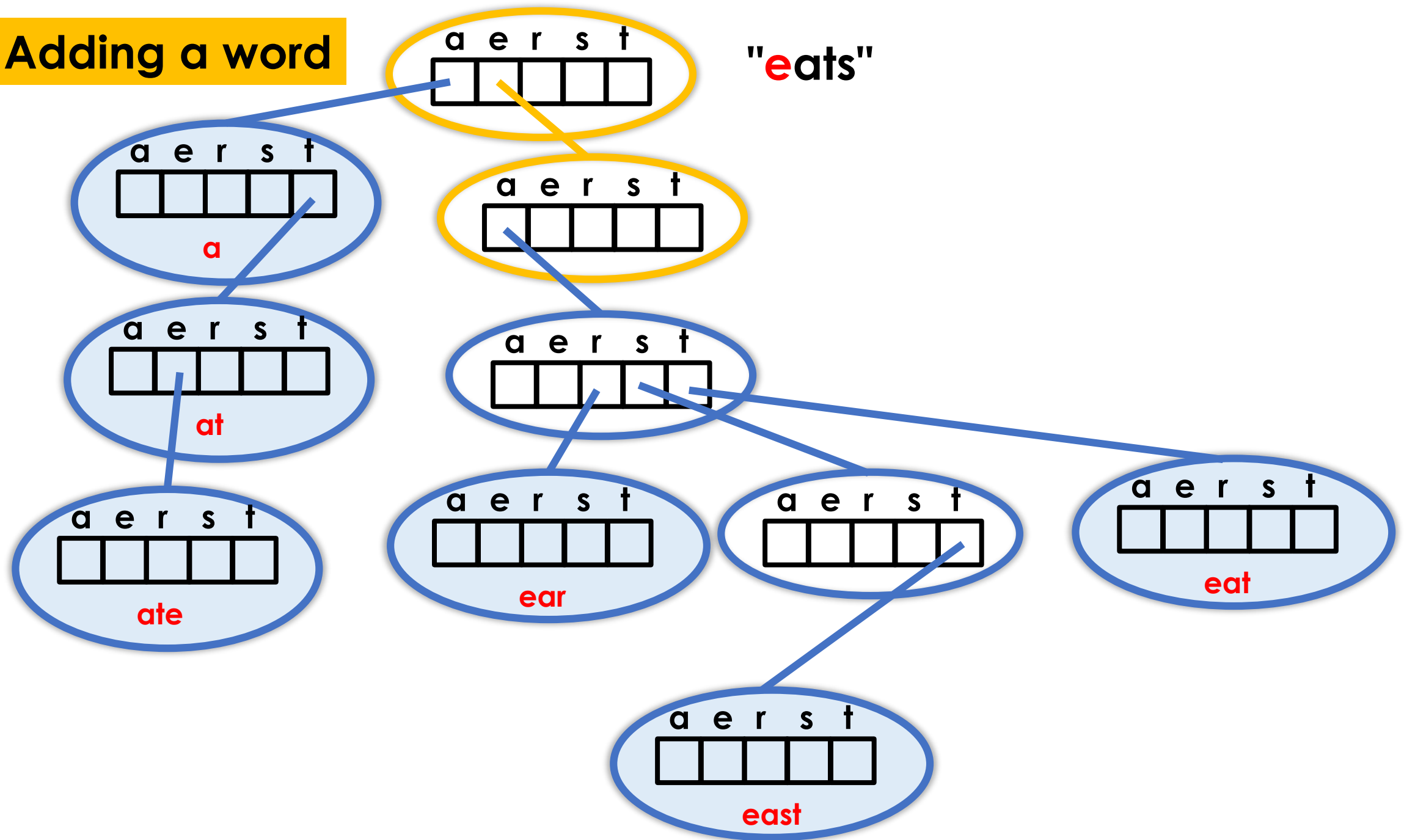
Adding a word

"eats"



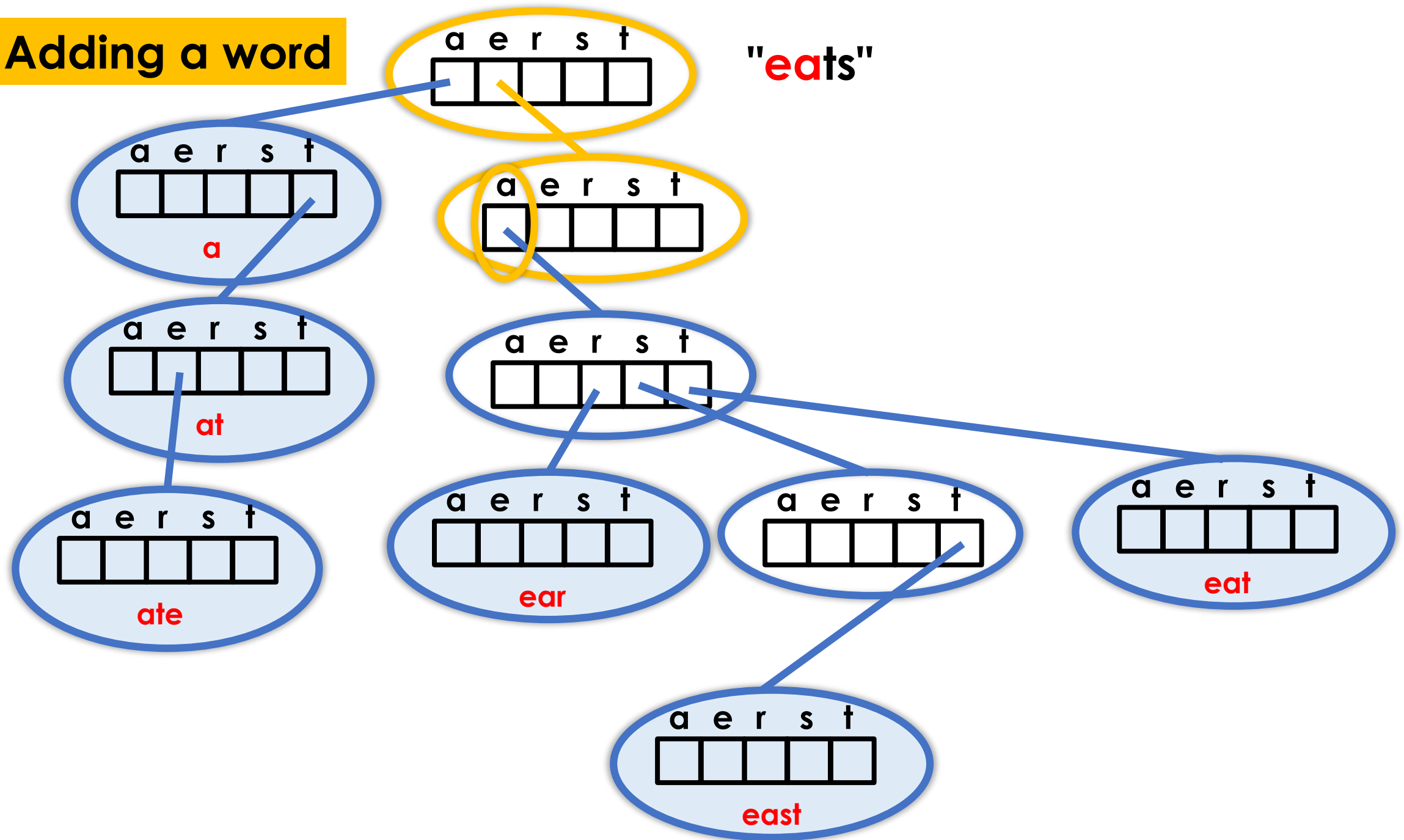
Adding a word

"eats"



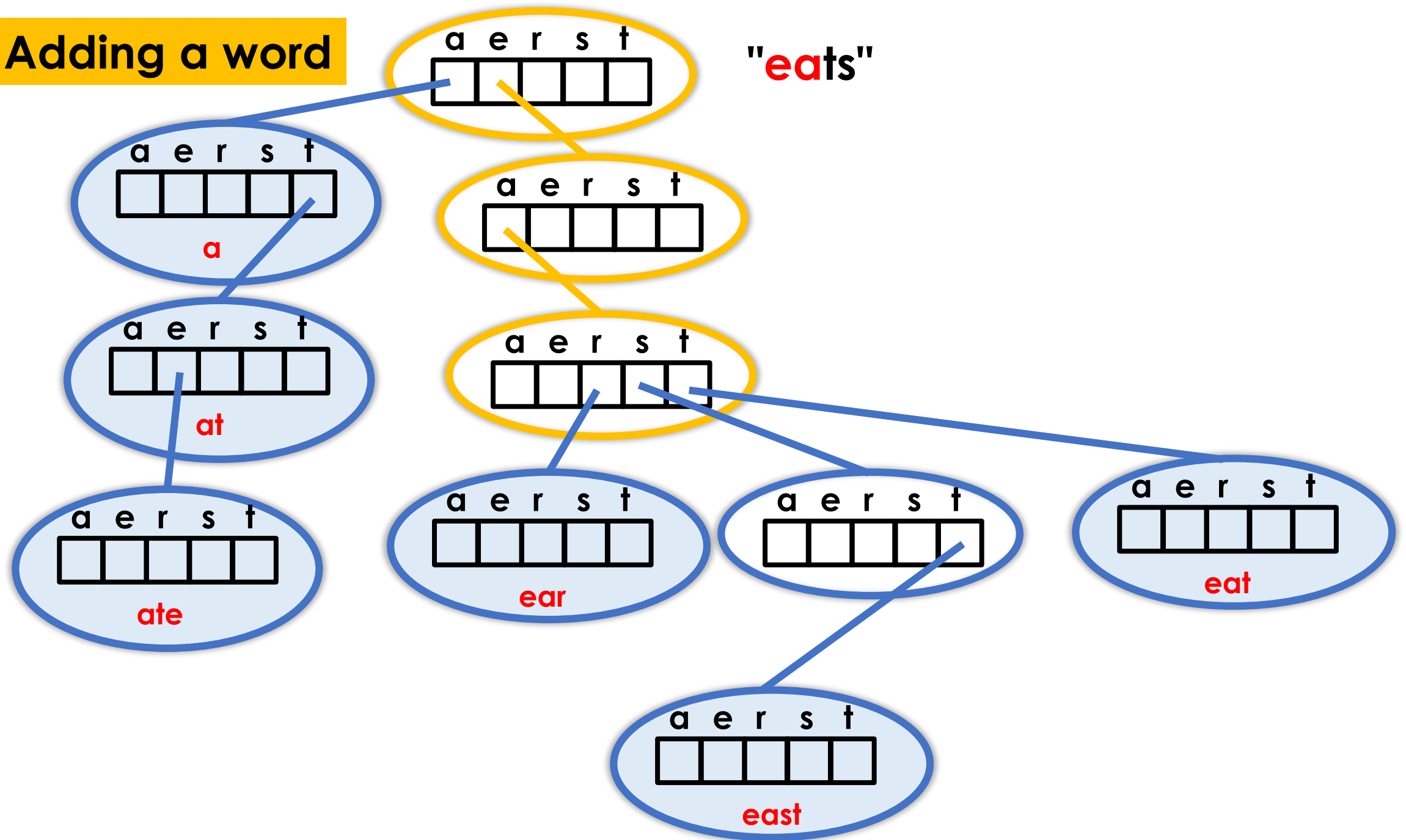
Adding a word

"eats"



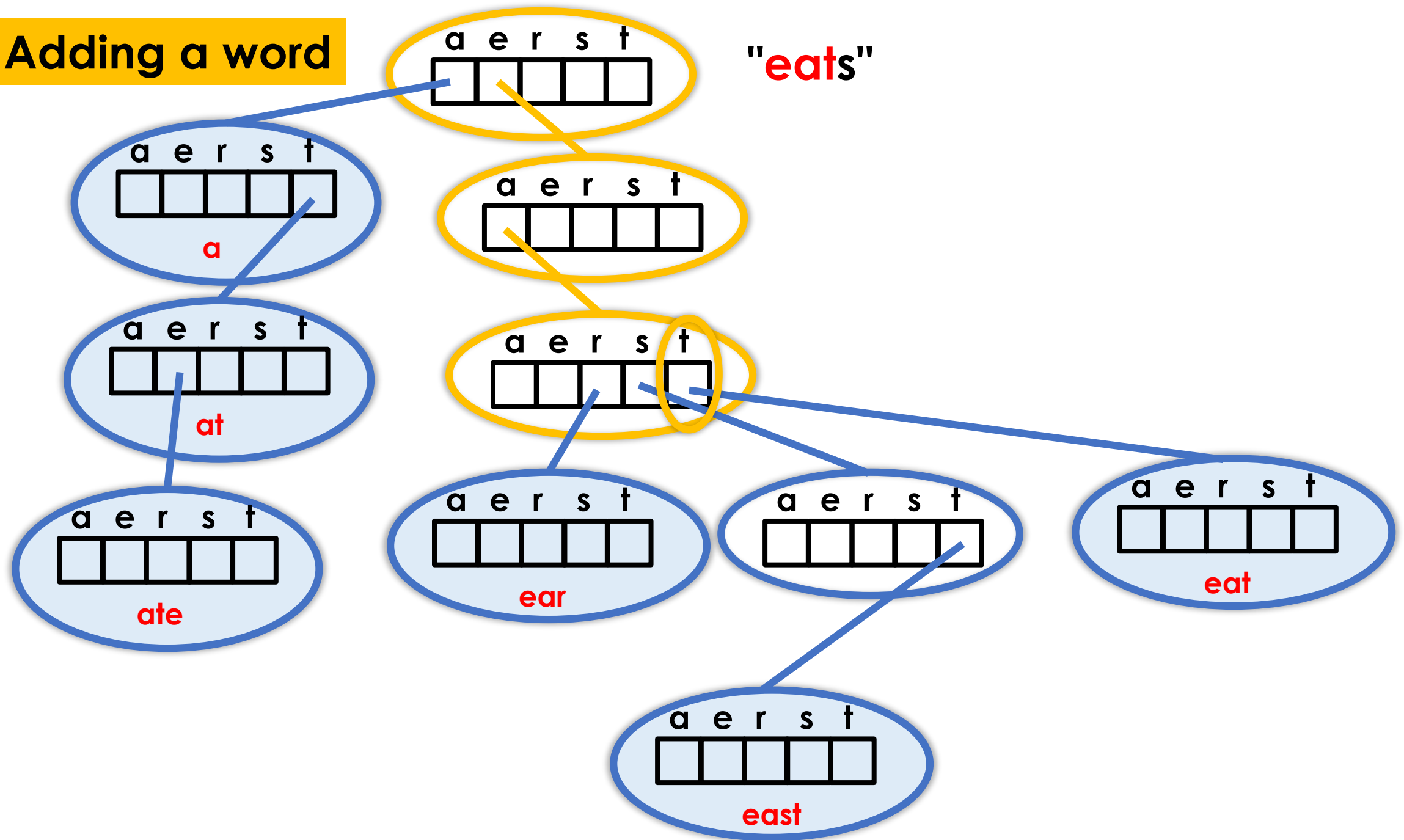
Adding a word

"eats"



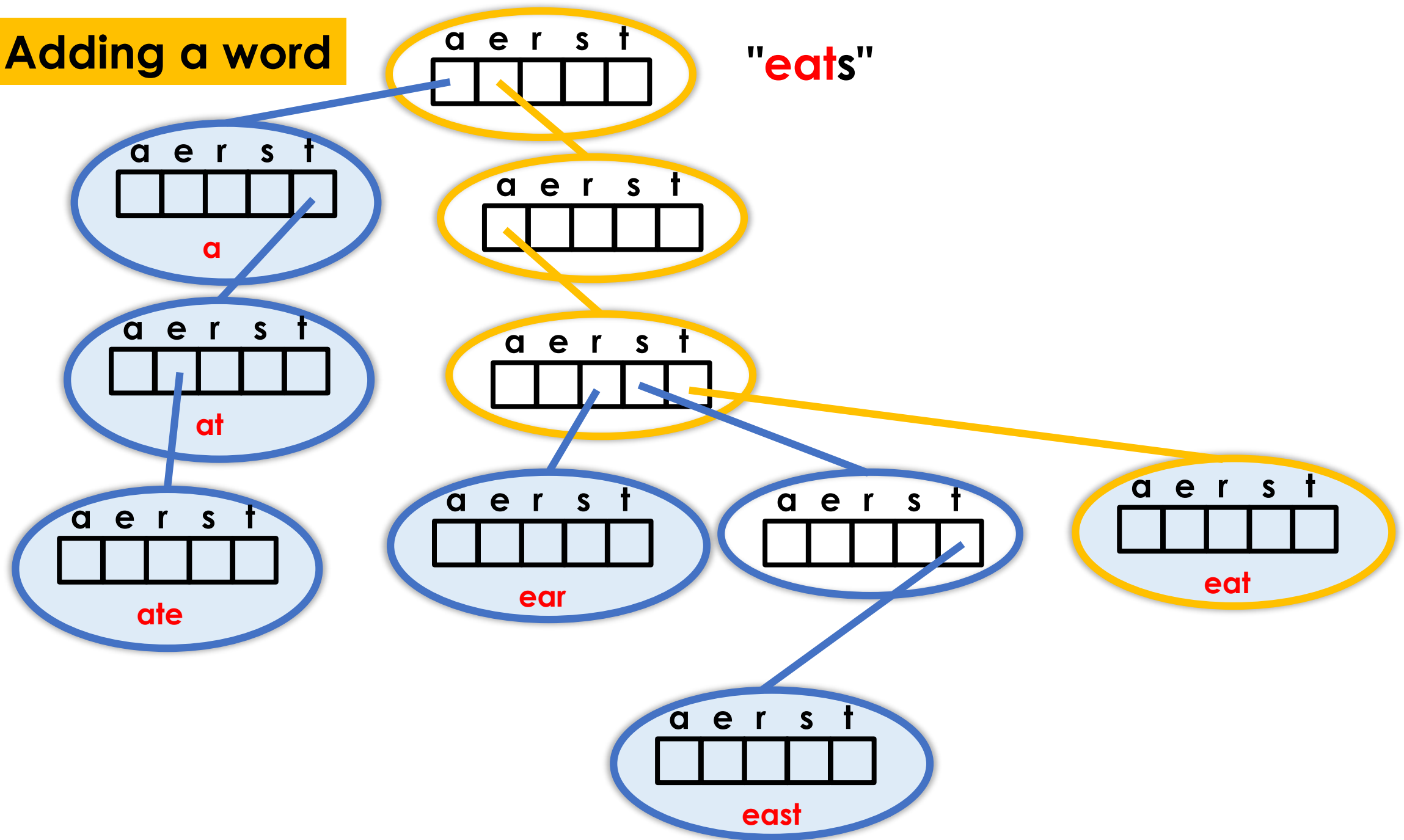
Adding a word

"eats"

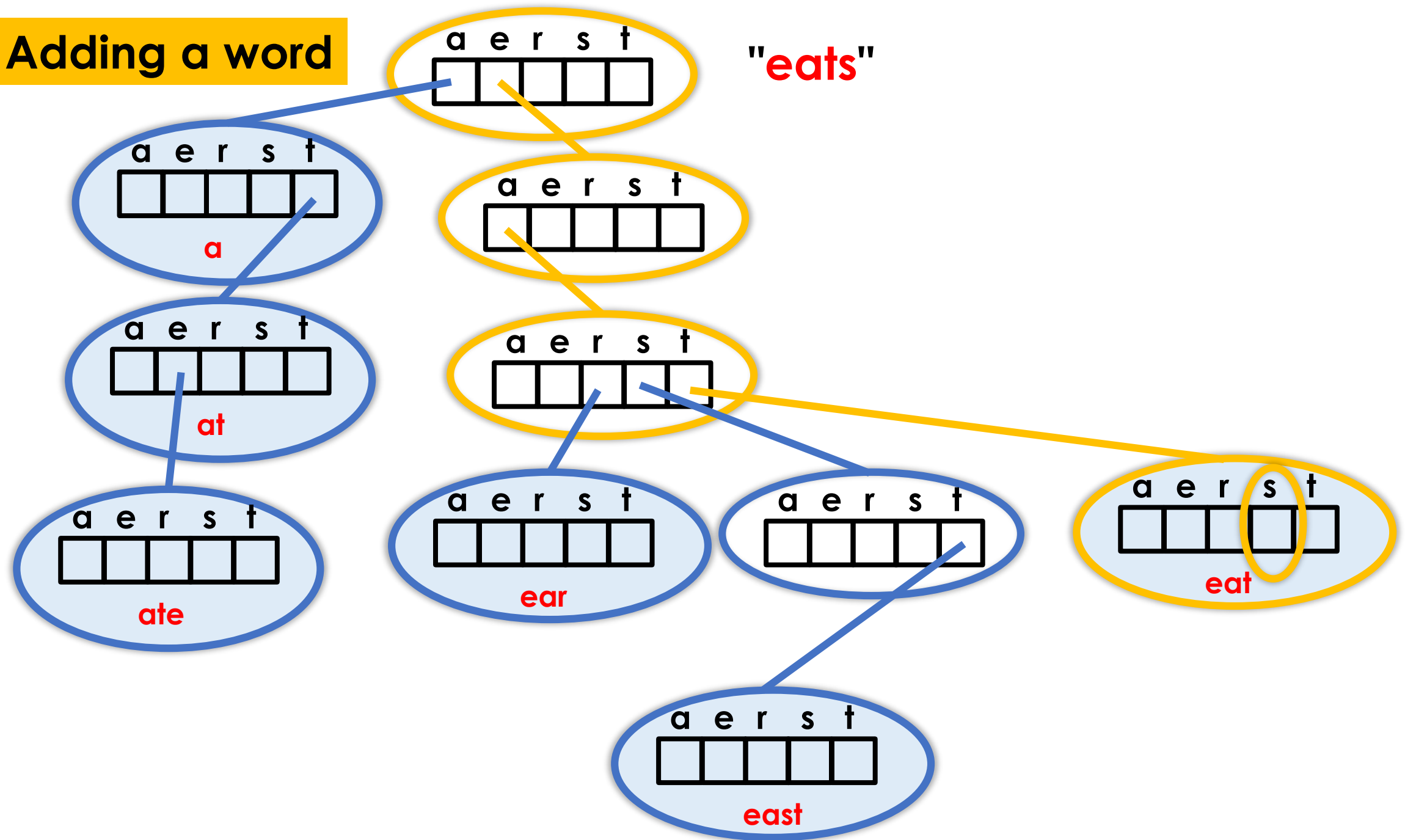


Adding a word

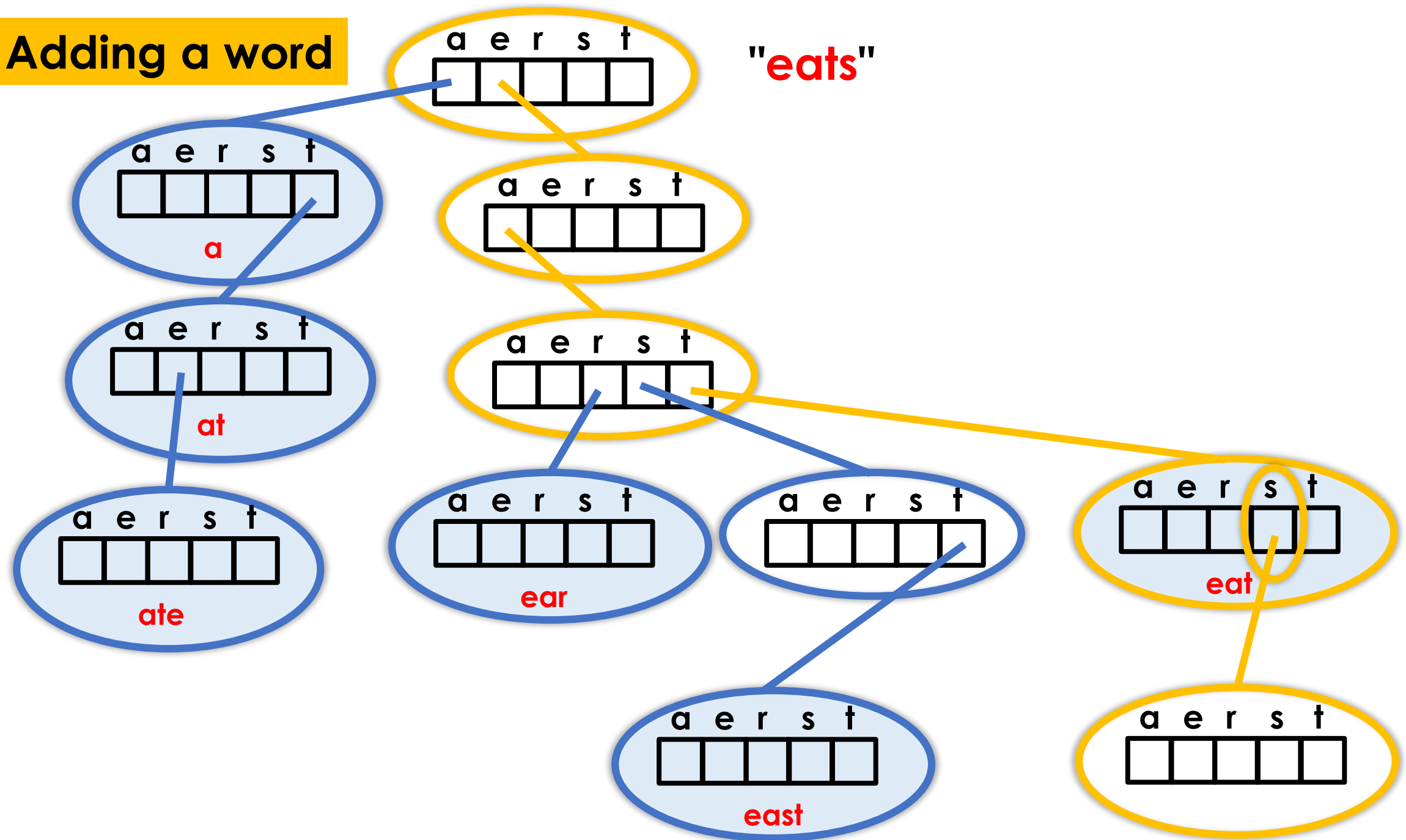
"eats"



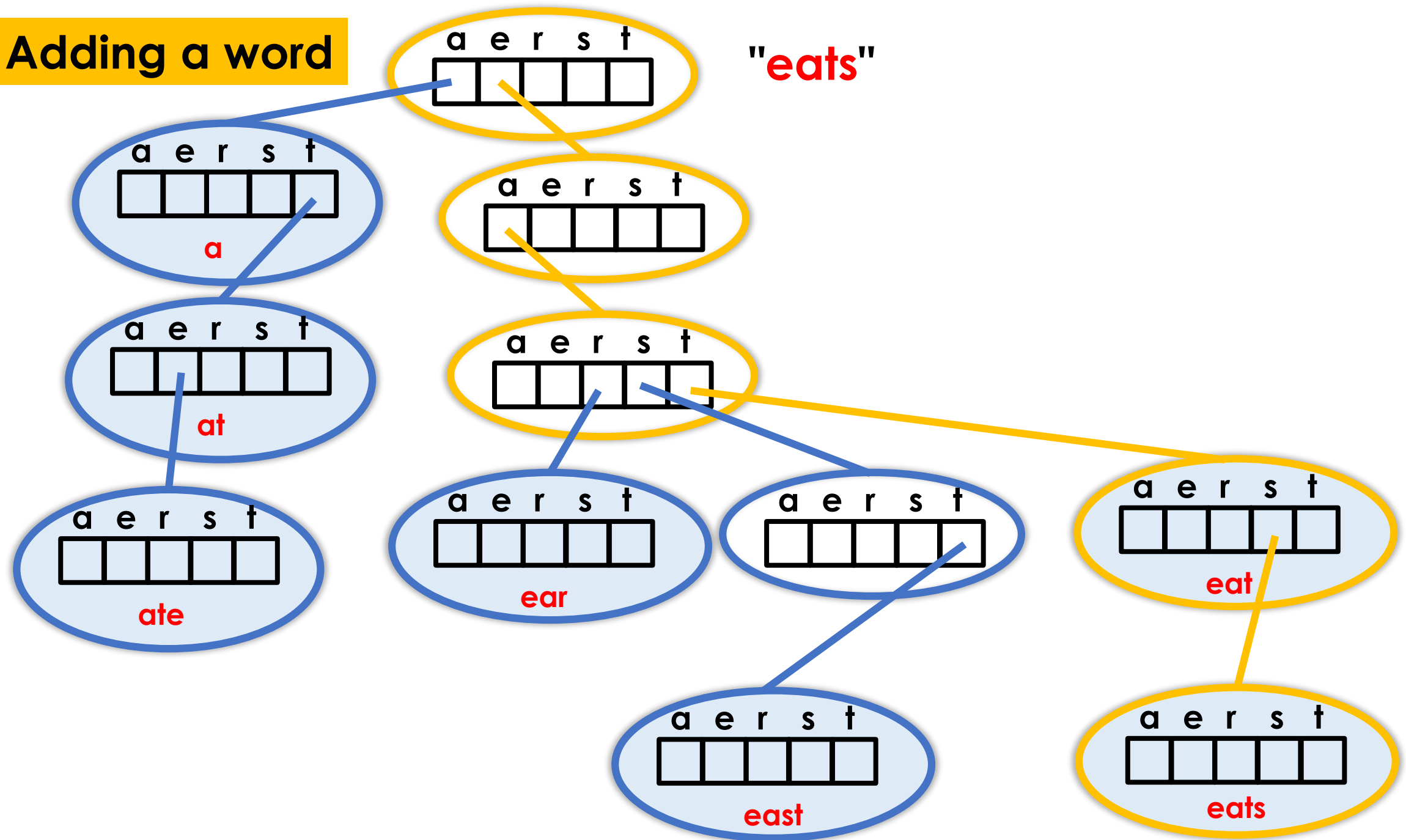
Adding a word



Adding a word



Adding a word



Adding a word

"eats"

