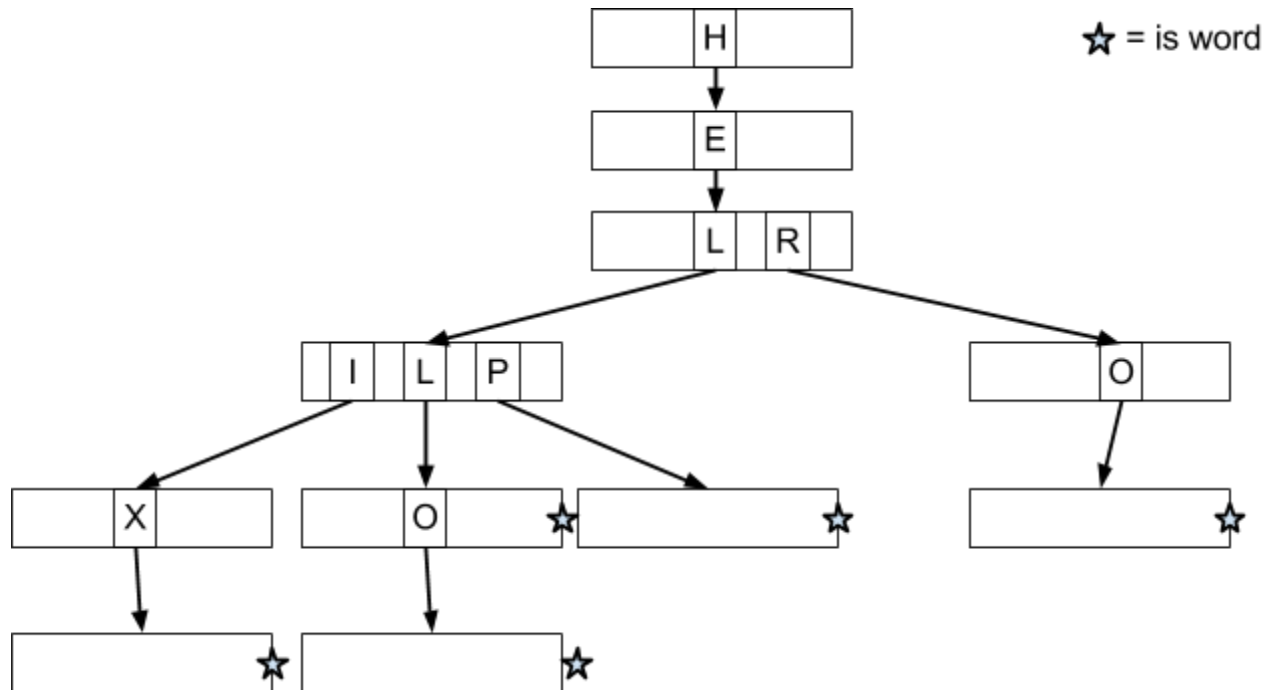


## Tries and PATRICIA Tries - CS 240 Tutorial - March 20th 2013

**Tries:**

Draw a trie after the following words have been inserted: hello, hero, help, hell, helix.



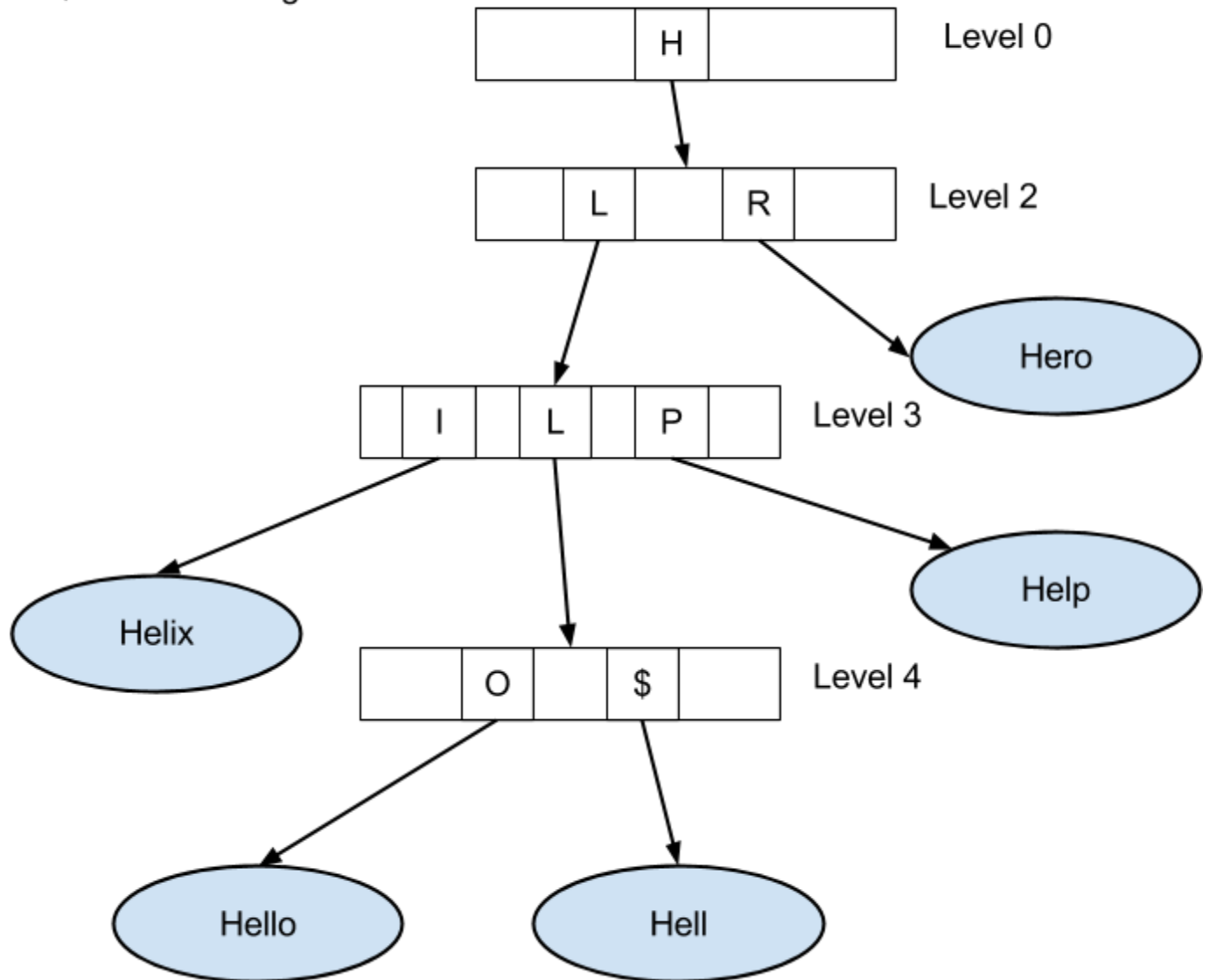
Show the students the two options for deletion:

1. Lazy: just remove the star
2. Actually remove the word from the trie.

### PATRICIA Tries:

Draw a PATRICIA trie after the following words have been inserted:: hello, hero, help, hell, helix.

\$ = end of string



Inserting “Hinge” into the Patricia Trie above we have to add another node. The way to do this is to grab a leaf and find the first place it differs, then simply add a node at that level.

Deleting “Hell” Requires removing the level 4 node and having the “L” pointer from level 3 point directly to Hello.