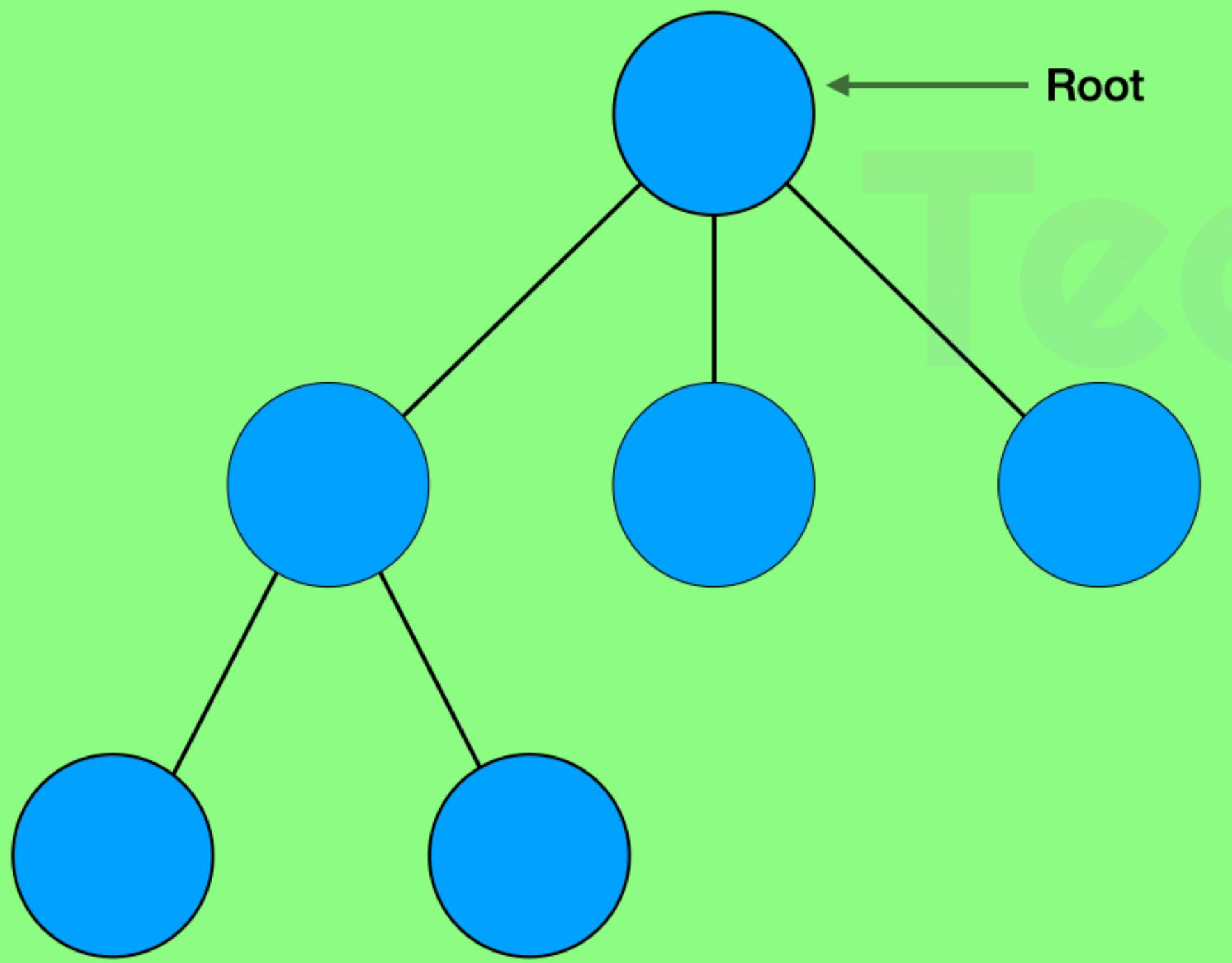
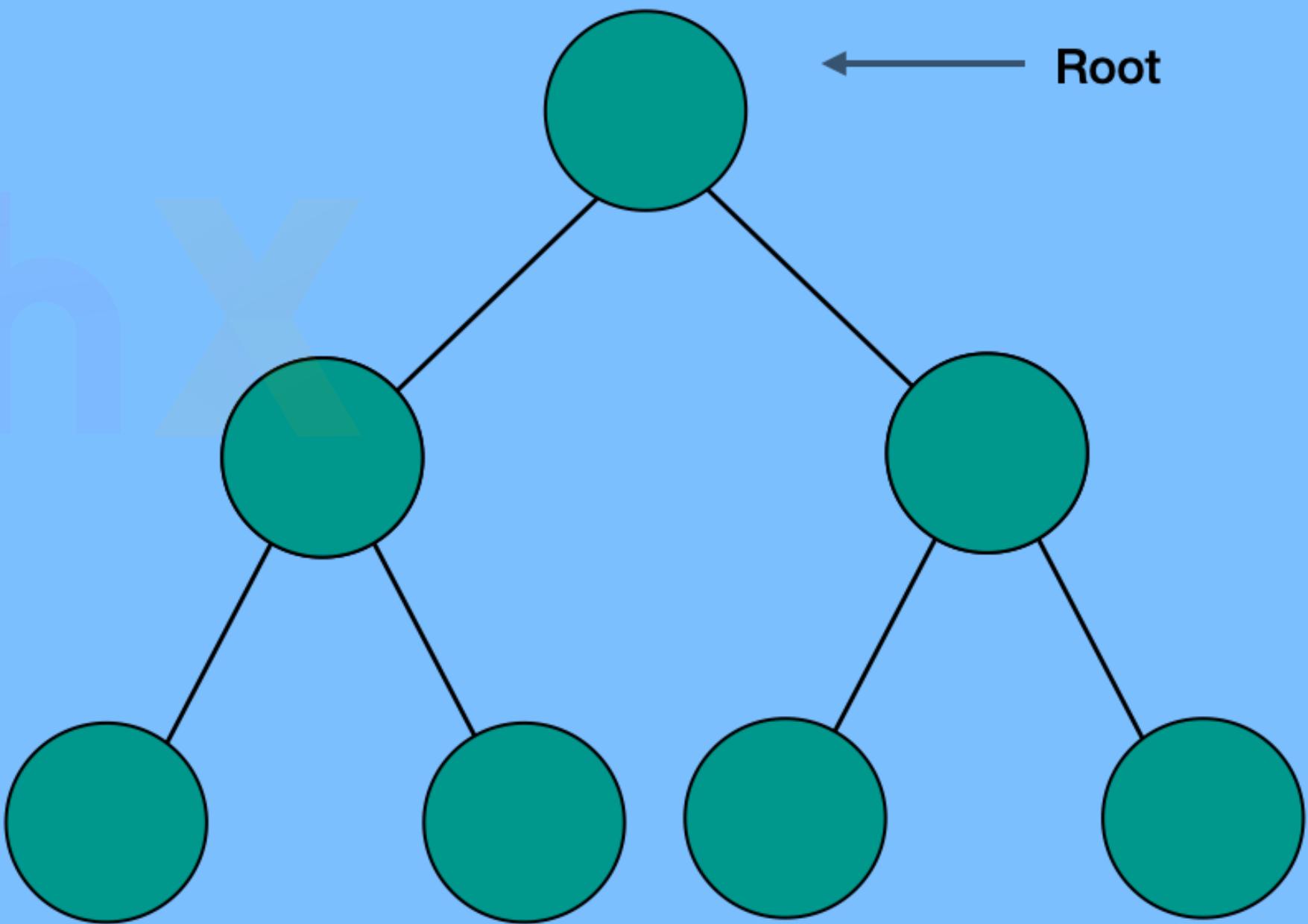


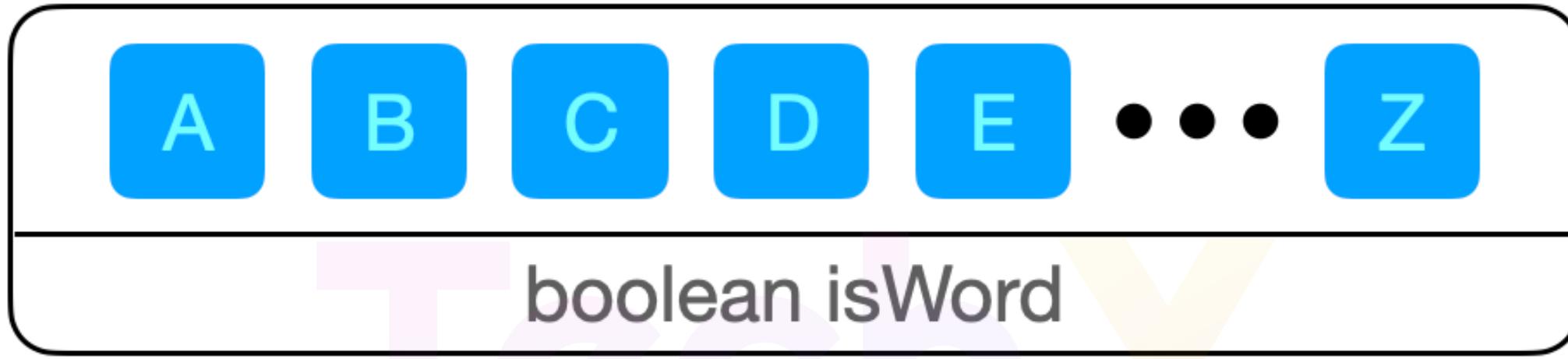
Trie

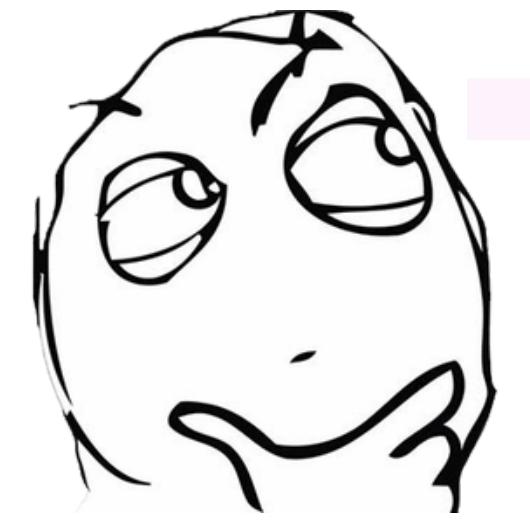


AVL Tree



Binary Tree

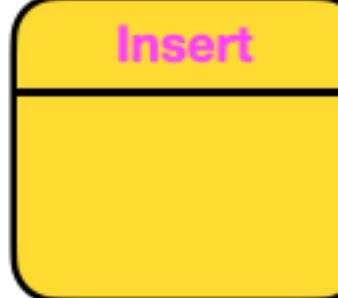
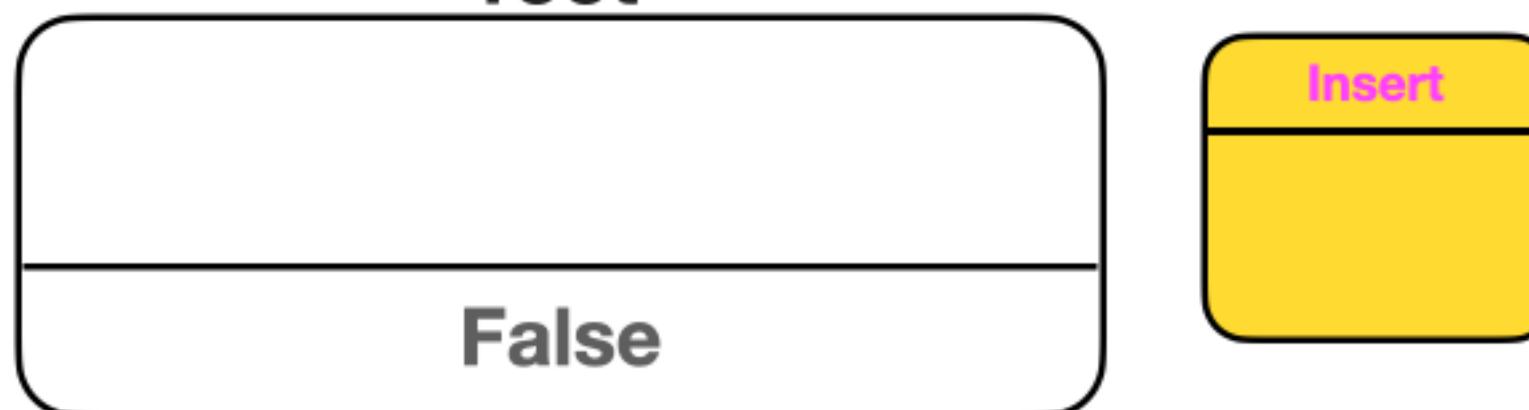




TechX
Insert Trie

TechX

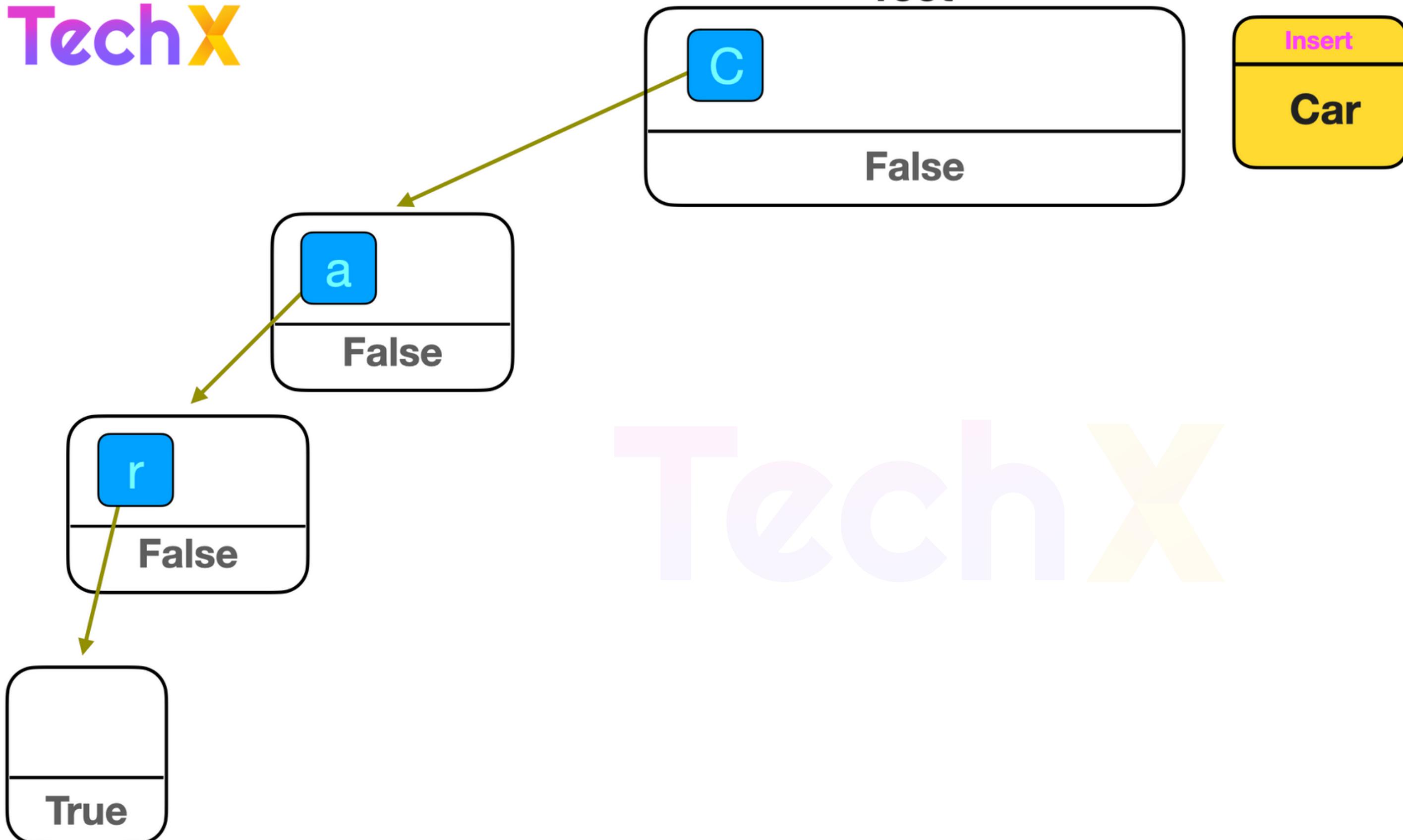
root



Car
Done
Try
Cat
Trie
Do

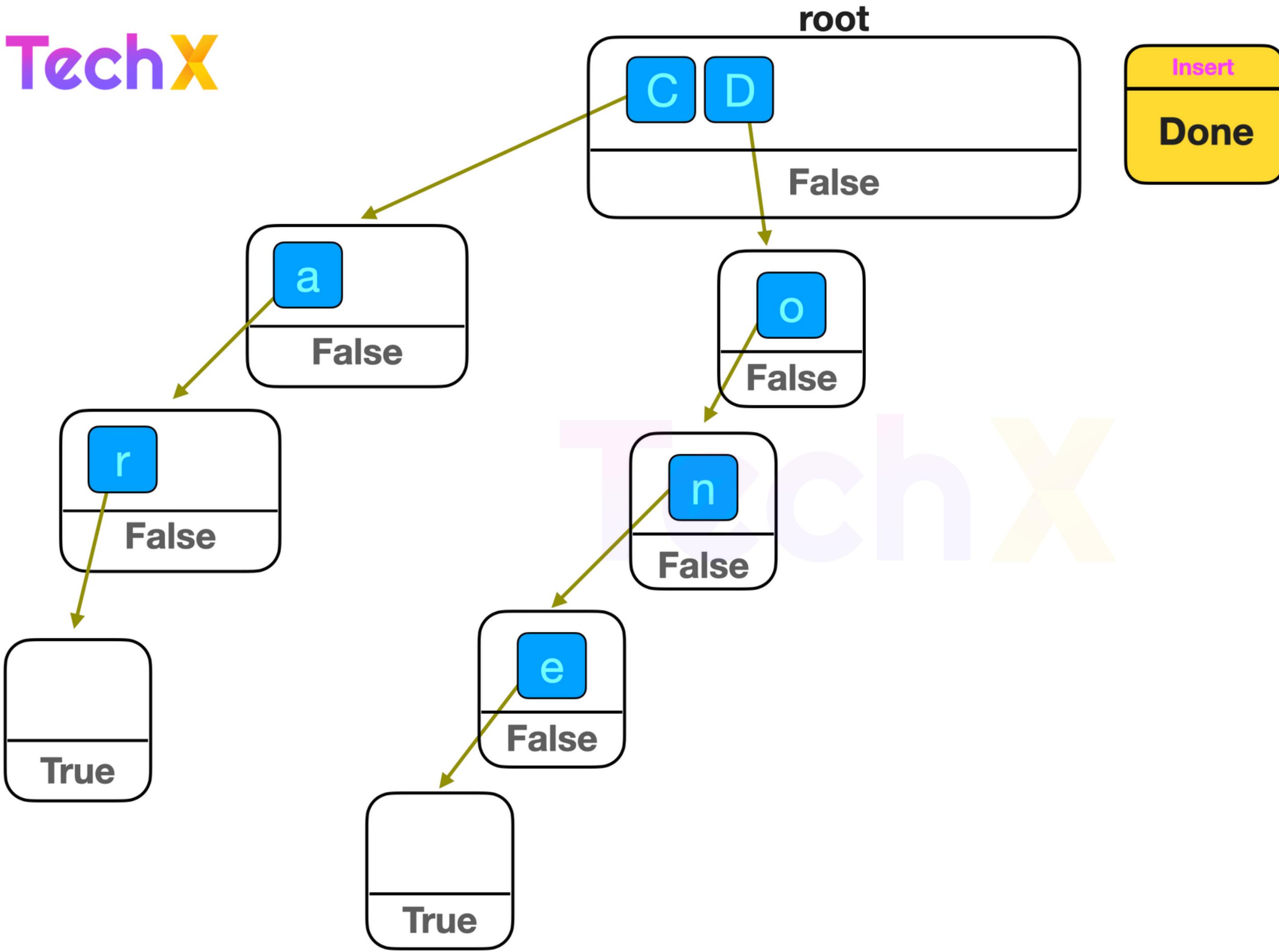
TechX

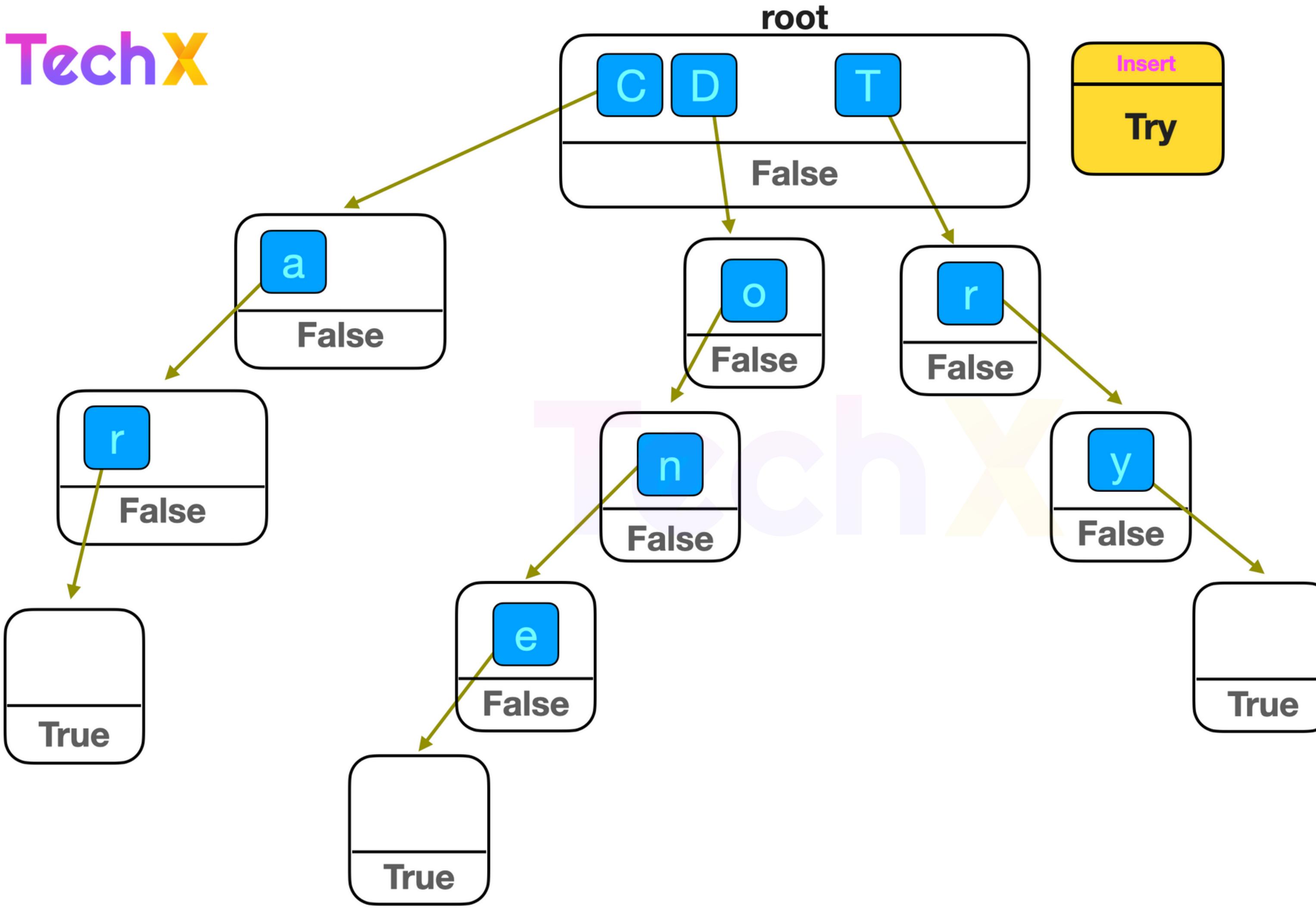
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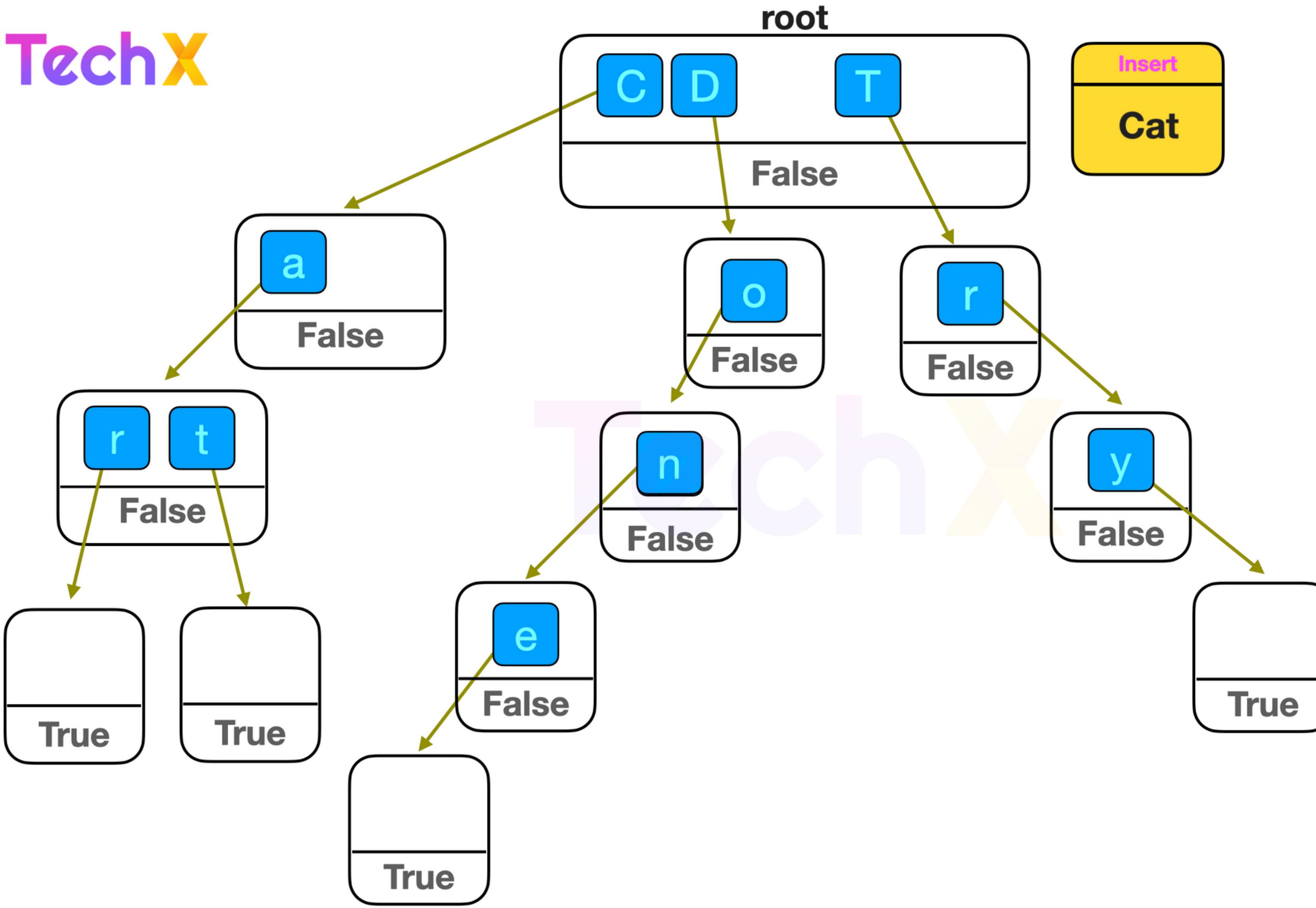


Done
Try
Cat
Trie
Do

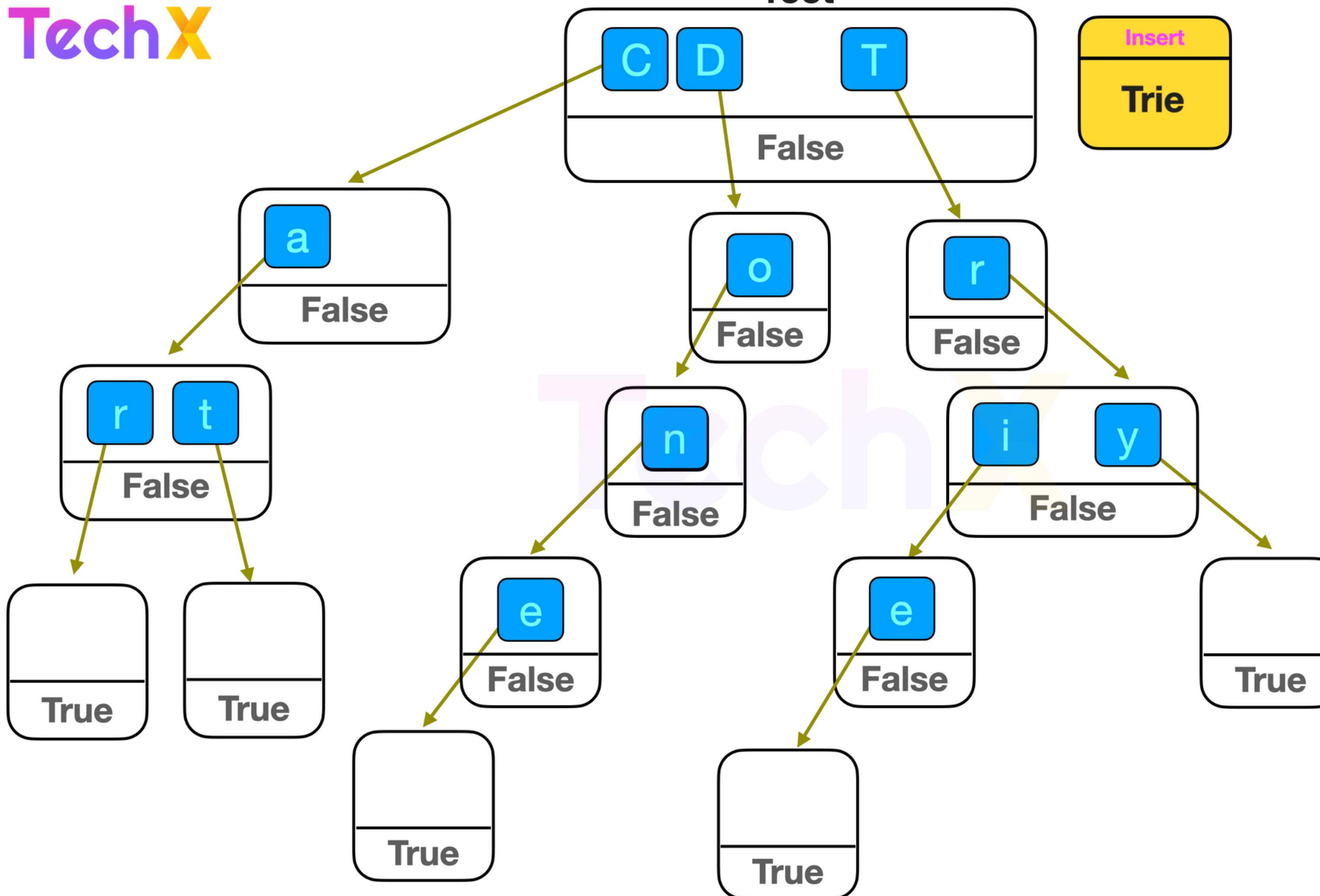
TechX



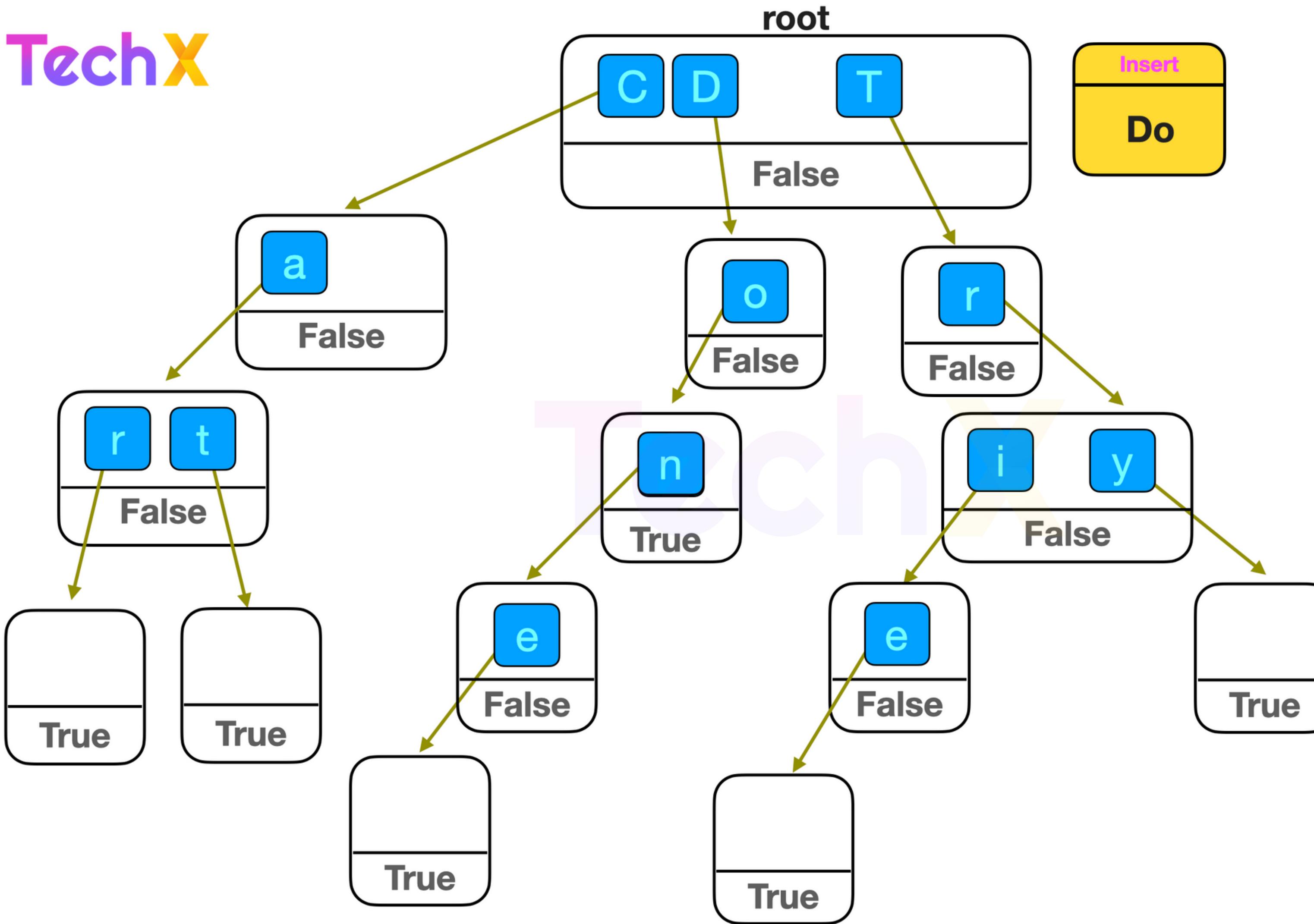


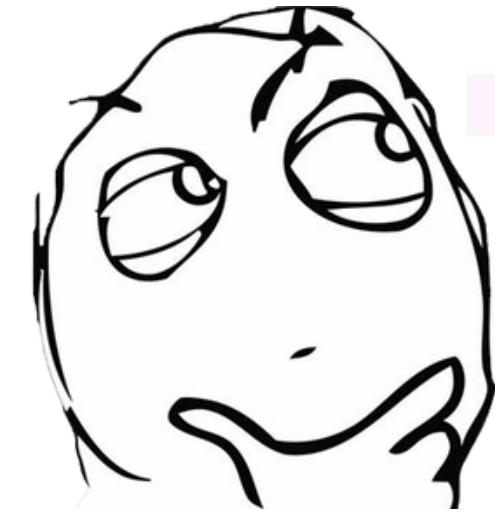


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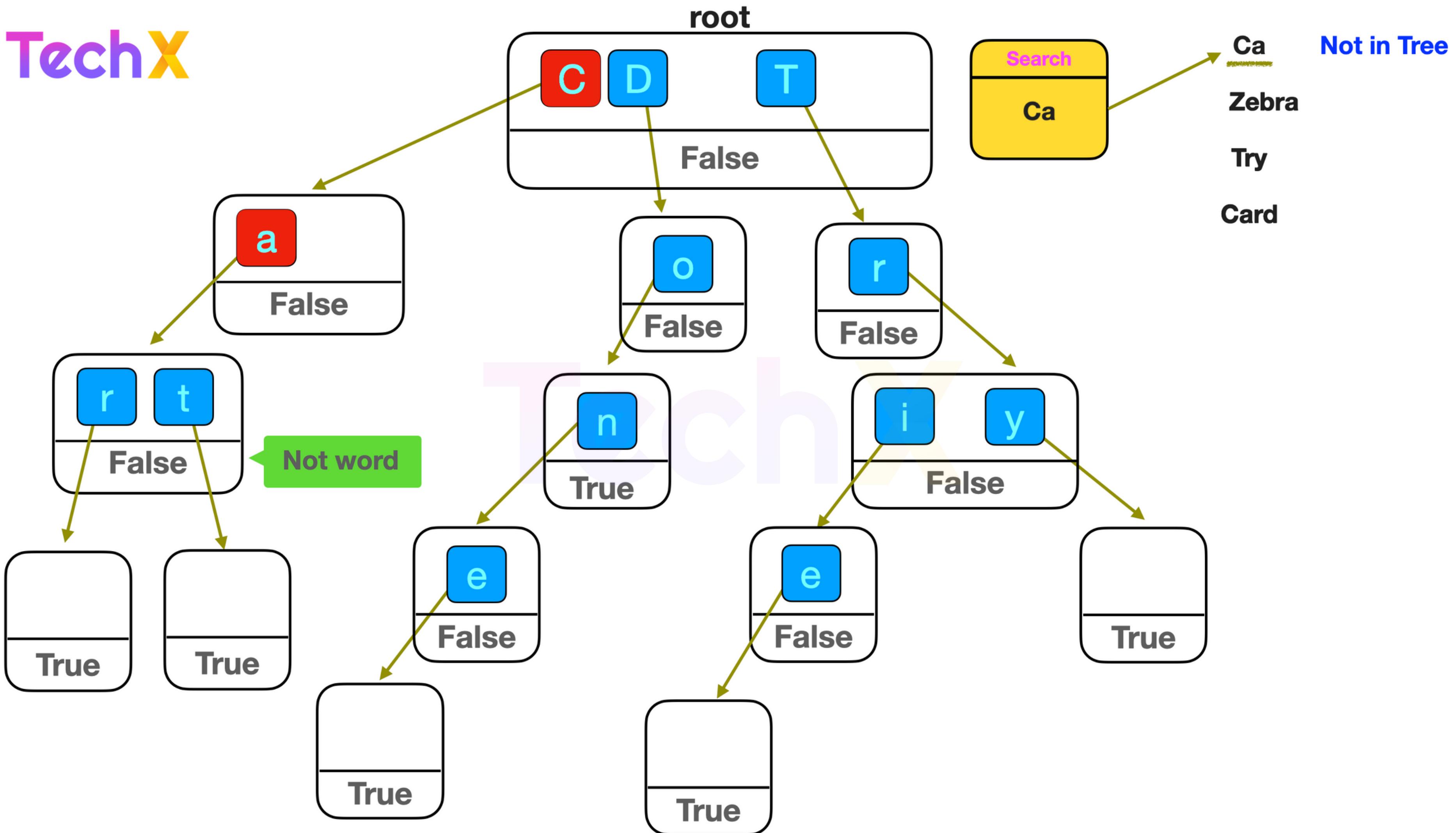


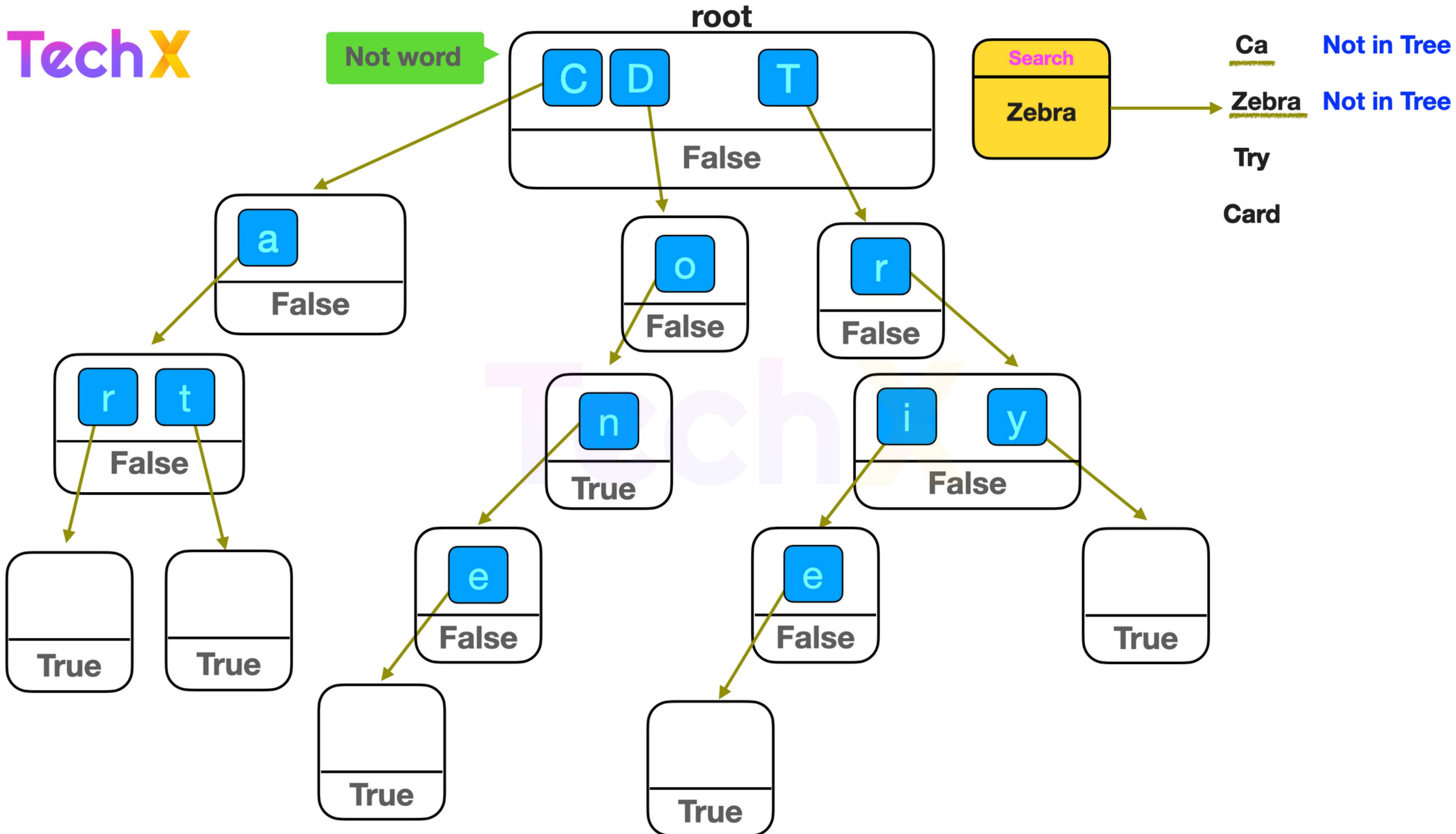
Do

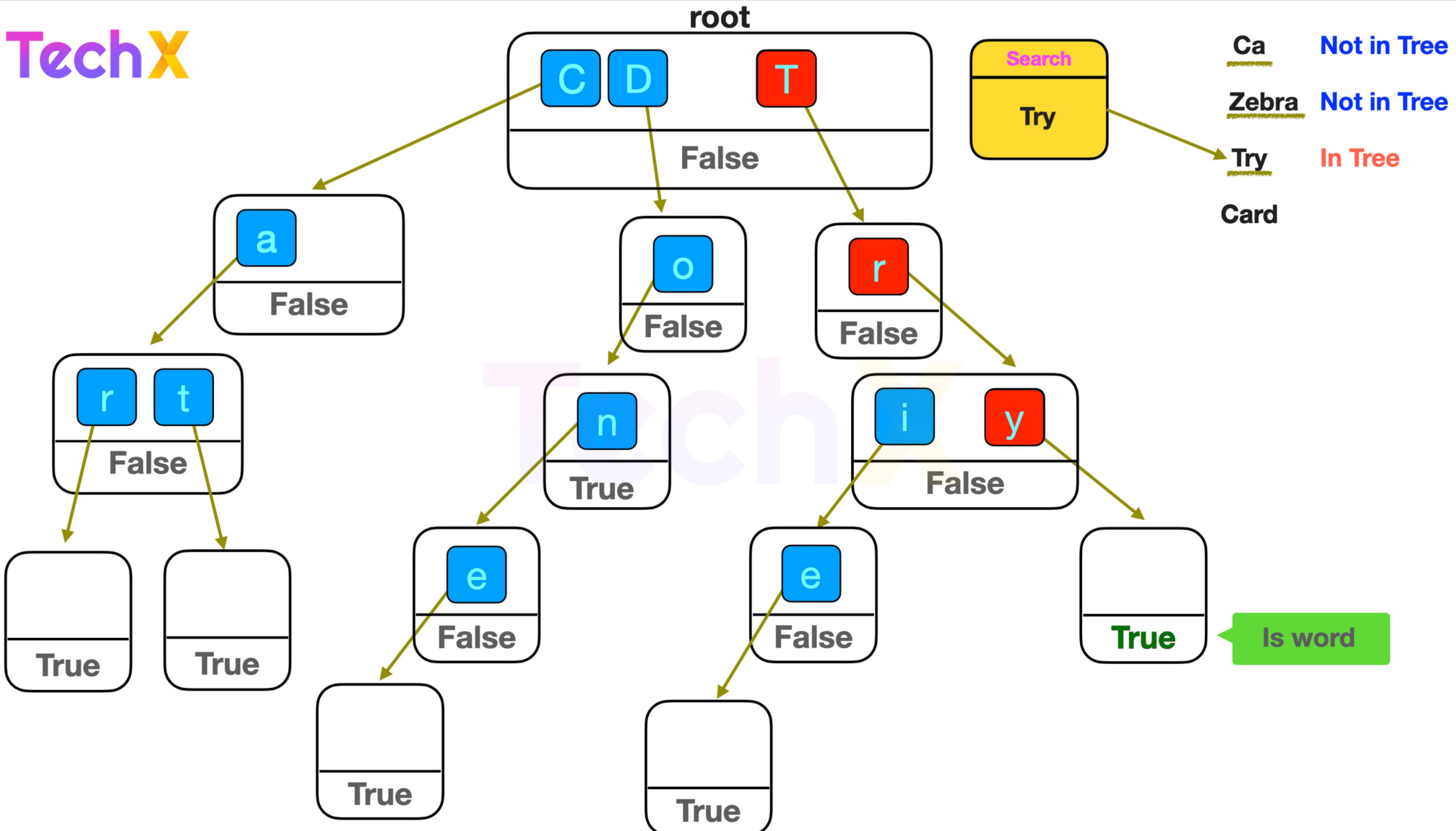


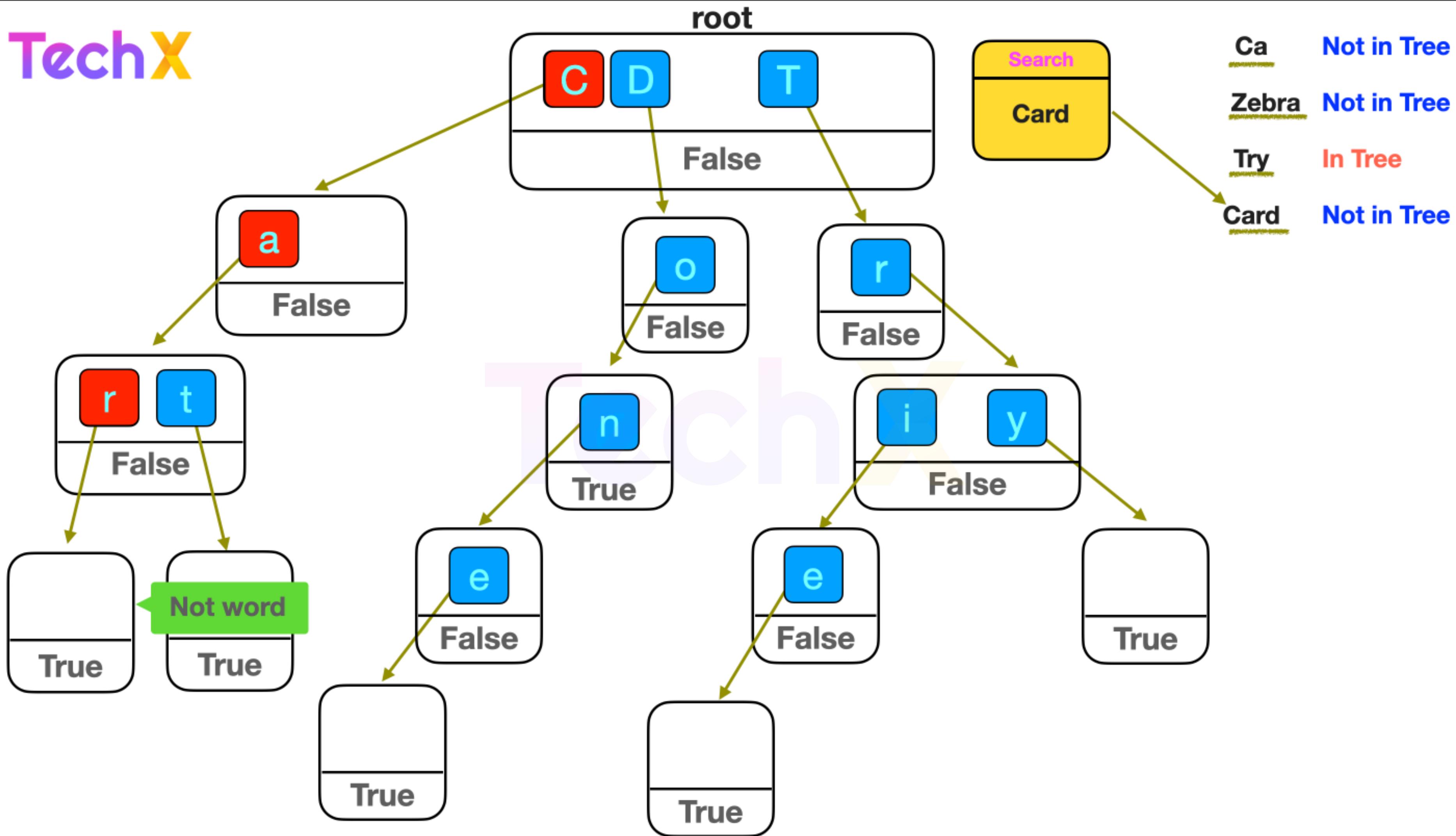


TechX
Search Trie









| Ưu điểm | Nhược điểm |
|--|--|
| <ul style="list-style-type: none"><input checked="" type="checkbox"/> Tra cứu nhanh<input checked="" type="checkbox"/> Tối ưu cho việc kiểm tra tiền tố<input checked="" type="checkbox"/> Tự động hoàn thành<input checked="" type="checkbox"/> Chèn và xóa hiệu quả | <ul style="list-style-type: none"><input checked="" type="checkbox"/> Sử dụng nhiều bộ nhớ<input checked="" type="checkbox"/> Phức tạp<input checked="" type="checkbox"/> Không tối ưu cho việc tìm chuỗi con |

| # | Title | Acceptance | Difficulty |
|------|---|------------|------------|
| 440 | K-th Smallest in Lexicographical Order | 31.6% | Hard |
| 336 | Palindrome Pairs | 35.0% | Hard |
| 212 | Word Search II | 36.1% | Hard |
| 2227 | Encrypt and Decrypt Strings | 39.6% | Hard |
| 1938 | Maximum Genetic Difference Query | 40.6% | Hard |
| 745 | Prefix and Suffix Search | 41.1% | Hard |
| 14 | Longest Common Prefix | 41.6% | Easy |
| 211 | Design Add and Search Words Data Structure | 44.4% | Medium |
| 2416 | Sum of Prefix Scores of Strings | 44.4% | Hard |
| 139 | Word Break | 46.2% | Medium |
| 140 | Word Break II | 46.3% | Hard |
| 1178 | Number of Valid Words for Each Puzzle | 46.6% | Hard |
| 2479 | Maximum XOR of Two Non-Overlapping Subtrees | 46.8% | Hard |
| 1803 | Count Pairs With XOR in a Range | 47.3% | Hard |
| 1707 | Maximum XOR With an Element From Array | 47.9% | Hard |
| 588 | Design In-Memory File System | 48.4% | Hard |
| 642 | Design Search Autocomplete System | 48.7% | Hard |
| 2261 | K Divisible Elements Subarrays | 49.0% | Medium |
| 616 | Add Bold Tag in String | 49.2% | Medium |
| 472 | Concatenated Words | 49.8% | Hard |
| 1316 | Distinct Echo Substrings | 49.8% | Hard |
| 758 | Bold Words in String | 51.0% | Medium |
| 792 | Number of Matching Subsequences | 51.3% | Medium |
| 1032 | Stream of Characters | 51.7% | Hard |
| 720 | Longest Word in Dictionary | 52.1% | Medium |
| 2707 | Extra Characters in a String | 52.9% | Medium |

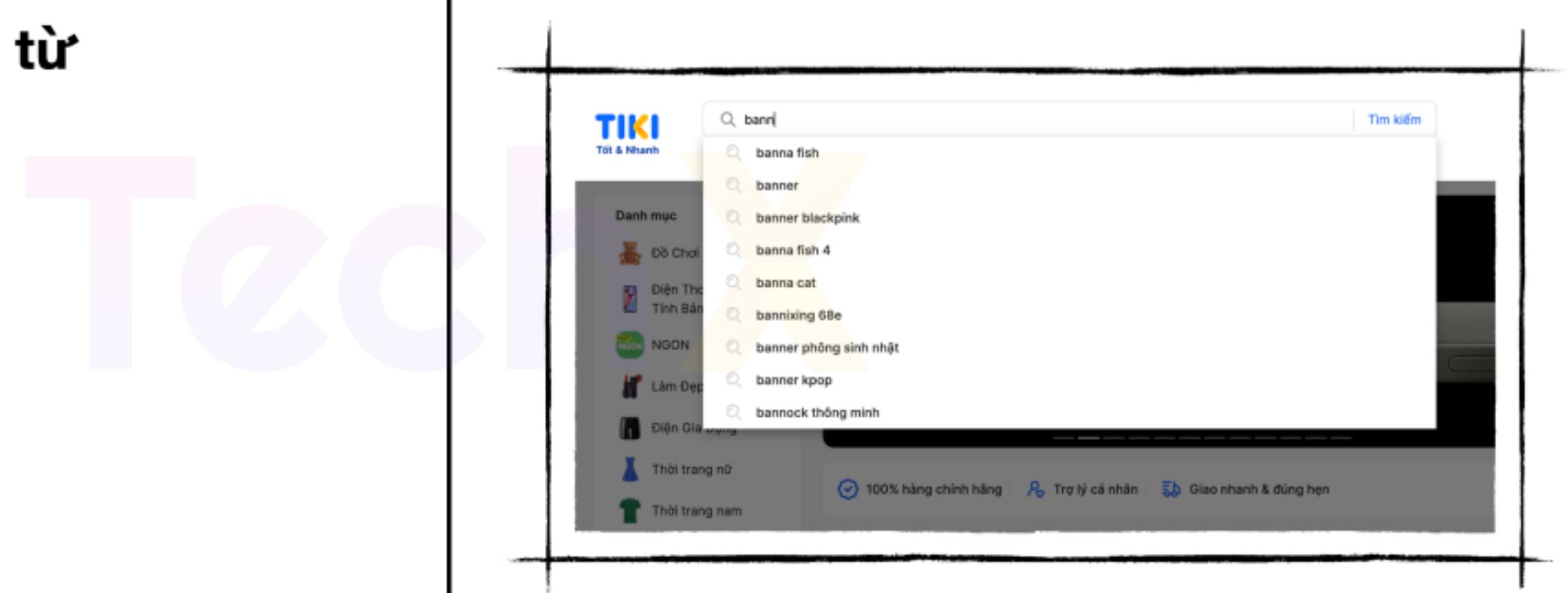
Ứng dụng được rất nhiều câu

Đa số đều là câu có độ khó cao

Bài toán áp dụng



Tự động hoàn thiện từ



Bài toán áp dụng

- Tự động hoàn thiện từ**
- Kiểm tra từ điển**



Bài toán áp dụng

Tự động hoàn thiện từ

Kiểm tra từ điển

Lưu trữ và tìm kiếm địa chỉ IP



Bài toán áp dụng

 **Tự động hoàn thiện từ**

 **Kiểm tra từ điển**

 **Lưu trữ và tìm kiếm địa chỉ IP**

 **Lọc từ khoá nhạy cảm**

