

Final Project:

Class Node {

private:

char data;
Node* arr[128];

Both:

★ Node* arr[(int)\$]	List<Node*>
Lookup $O(1)$	$O(n)$
Insertion $O(1)$	$O(n)$
removal $O(1)$	$O(n)$
Mem $O(128)$	$O(0 \leq n \leq 128)$
Child_check $O(n)$	$O(1)$

Input file: SMILE!
SMOOTH
START
CRIME
CRIMINAL?

class Trie {

private:

TrieNode* root;

public:

Trie(std::string n);

Trie();

void insert(string)

void remove(string)

bool contains(string)

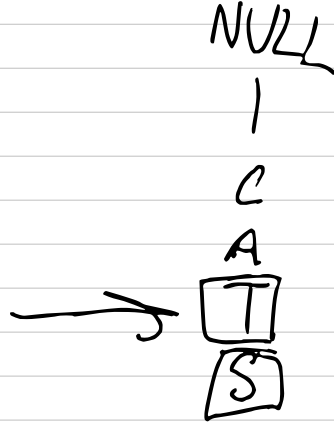
void list();

if temp → endpoint {

true

}

false;



contains("cat")

Trie = { }

cat ∉ trie

cats ∈ trie

↓
String

