

First Unique Characters in Strings

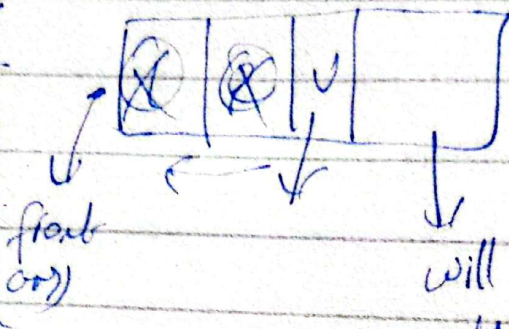
str = "level"

[l][e][v][e][l]

↓ Unique
Non-repeating

→ FIFO Queue Implementation

char	int
l	1 2
e	1 2
v	1



Pseudocode

```
unordered_map<char, int> m;  
queue<int> q;  
for(i=0 to n){  
    if(m.find(s[i]) == m.end())  
        q.push(i);  
    m[s[i]]++;  
    while(q.size() > 0 && m[s[q.front()]] > 1)  
        q.pop();  
    if(q.empty())  
        return -1;  
    else  
        return q.front();  
}
```

[T.C = $O(n)$]

[S.C = $O(n)$]