## Hash Agile

## **Problem Statement**

Find the First Non-Repeating Character Write a program to find the first non-repeating character in a string. For input "swiss", the output should be "w". You cannot use any built-in string or character frequency counting functions. Instructions: Implement manual string traversal and counting logic to solve the problem.

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Program
Java code:
       import java.util.*;
       class Main {
               public static void main(String args[]) {
                       Scanner sc=new Scanner(System.in);
                       String str=sc.next();
                       char ans=func(str);
                       System.out.print(ans);
               public static char func(String str) {
                       HashMap<Character,Integer>hm=new HashMap<>();
                       for(int i=0; i<str.length(); i++) {</pre>
                              char a=str.charAt(i);
                              hm.putlfAbsent(a,0);
                               hm.put(a,hm.get(a)+1);
                       for(char i :hm.keySet()) {
                               if(hm.get(i)==1) {
                                      return i;
                              }
                       return '\0';
               }
       }
Python code:
       def func(s):
          sets={}
          for c in s:
            if c not in sets:
```

```
sets[c]=0
sets[c]+=1

for c in s:
    if sets[c]==1:
        return c

return '\0'

s=input()
ans=func(s);
print(ans);

Testcases:

TestCase 1:
    Input: swiss
Output: w
```

Input: aabbvvc Output: c

Input: hashagile

Output: s

TestCase 2:

TestCase 3: