15 April 2024 18:41

$$h(str) = int$$

$$5, t = 1 \times t \leq 1 \times t$$

$$S_{0} \times S_{1} \times S_{2} \times S_{3} \times S_{4} \times S_{5} \times S_{5$$

```
LL SubstringHash(int a, int b) {
    return sufHash[a]-sufHash[b+1]*pwr27[b+1-a];
}
```

```
LL calcHash(string s) {
   LL hash = 0;

   for(char I : s) {
     hash *= BASE;
     hash += I-'a'+1;
     hash %= MOD;
   }

   return hash;
}
```

 $(50x + 51) \times 15$   $(50x^{2} + 51) \times 15$   $10^{9} + 7$  $10^{9} + 696569$ 

dp[0]=tvac for(int i=0 i< t.si=e() i+t) i+(dp(i)) for(j=0) j < w. size() j+t) i+(Subs(i,i+v)) . 42e(j=6/v[i]) $d_{in}[i+v[i] :: 17.1$ 

## dp [it v[j]. size 1] =true

```
vector Liat) perm (n)
i ot a (perm beg ), perm cad), 1)
deo {
```

3 while (next-permutation combeg....

```
do {
    string w2 = w;

for(int i = 0;i < w.length();++i) {
        w2[i] = w[per[i]];
    }
    cout << w2 << endl;

LL wHash = calcHash(w2);
    for(int i = 0;i <= s.length()-w.length();++i)
        if(wHash == sHash[i])
            res++;
} while(next_permutation(per.begin(), per.end()));</pre>
```

& U; SizL) = count

$$\frac{N}{P} = \frac{10^{9}}{10^{9}} = \frac{1}{10^{9}}$$

$$\frac{n}{p_1} \cdot \frac{n}{p_2} = \frac{1}{10^8}$$