

ADA

- ETE: 50 marks
- MTE: 25 marks
- CWS: 25 marks → coding (HR)

attendance: 5 marks 1 week

Ass. : 20 marks
(HR)

Syllabus:

- Recursion
- T&S Complexity
- Sorting
- Backtracking
- Greedy
- DP ⇒
- Graph

RECURSION

Subsequences

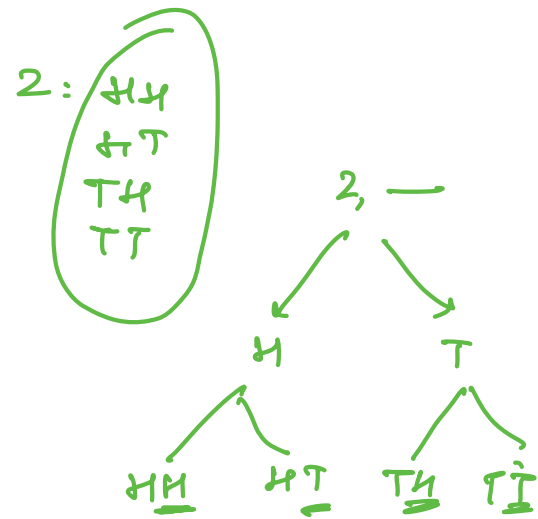
"abc"
↓ ↓ ↓
2, 2, 2
 $2^1 = 8$
 2^3

2^2

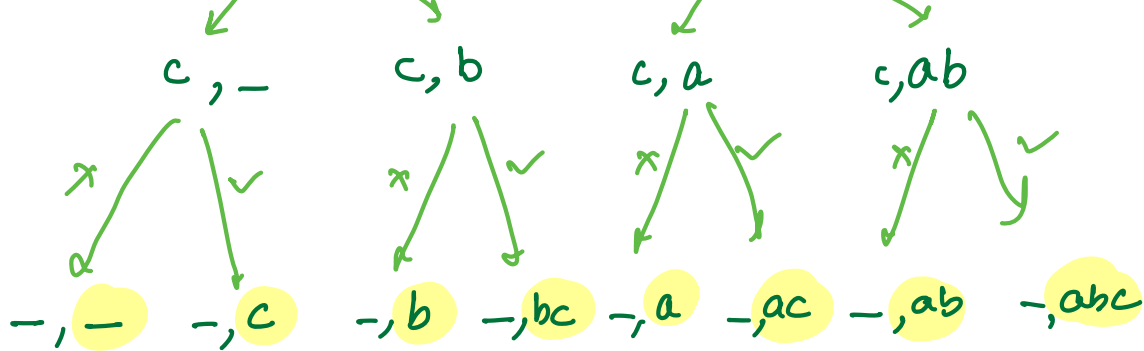
a
b
c
ab
ac
bc
abc

8

ques ans
"abc", —
0 1 2



ques[0]
ques.substr(i);



["", "a", "b", "c", "ac", "bc", "ca", "abc"]

"a**a**b"

-
 a
 a
 b
 aa
 ab
 ab
 aab

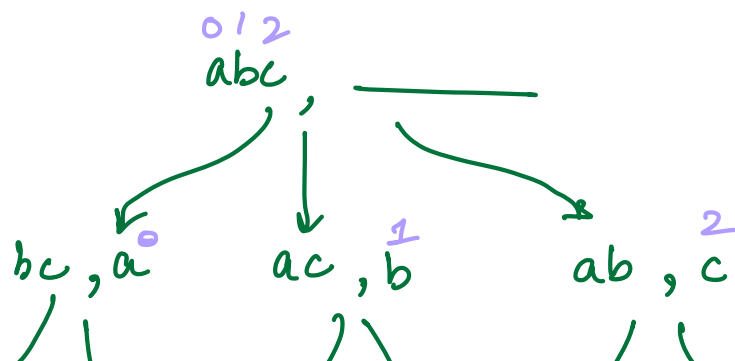
Permutation

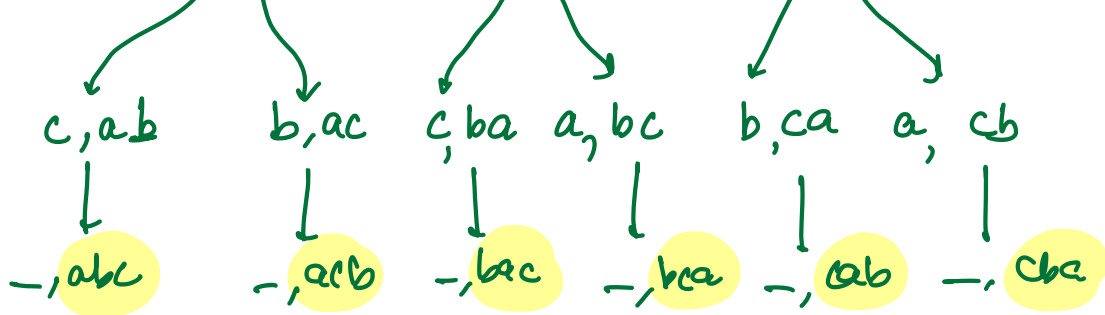
abc

2!

3!

abc
 acb
 bac
 bca
 cab
 cba





0 1 2 3 4
hello

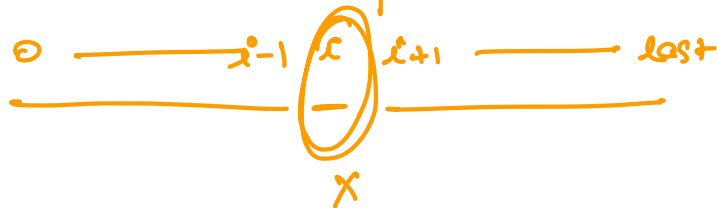
substr(1) : ello

substr(4) : o

substr(0, 2) : he

substr(0, 4) : hell

iter char:



substr(0, i) + substr(i+1)

"aab"

duplicates?