Distinct Subsequences

si: babgbag

babg bag

he have count the no. of ways?

- Recursion.

baby bay

bas

Recursion Approachi

· We have 2 Strings. SO,

f (ind 1, ind2) -> Express in Index

f (ind 1, in if (j < 0) return 1, sport of (i(0)) return 0, with (sitistize sites) = f(i-1,j-1) + f(i-1,j). Explore summans g

markh non makh concept

Base Case

When do I return 1? - when Amyall char for 52
When or I reman 1.

making Common we have rating subsequent of Mot Take?

No Take

0-6 and wher ip babg bag Recursion Tree: f (6,2) -, maser f(3,0) not make f(2,0) mare f(1,0)

bag 117 (+(-1,01) + (-1,0)

There would be over lapping sub probleme.

5 So, we use Hemo mi zation

dp -> dp[n][m];

Tobulation:

Base Case: if (izzo) - means for every if 0 if (j.zo)

Space Ophimizahn

In 1D Darsong.

Frak prev [0]21 bobybag 1000 1000] + [1-1][] prer @[j]~ p[&[w] Wor