

\* 1593 — Logic Graph<sup>n</sup>

Str: WNWZfvedwfvhSWW

→ 1<sup>st</sup> add all unique substrings splits (though might not be max) in forward movement

• seen\_substr = {w, ww, z, f, v, e, d, wf, vh, s}

with in above case ww left out as duplicate substr.

\* Q<sup>n</sup> asks to split the given str into substr's & not leave out with any substr 'ww' in above case.

→ Now we backtrack for all possible substrings as in 2-

- prev valid substr was 's'
- we del from 'seen\_substr' & now try to work out possible splits for 's' + 'ww' = 's, ww' that are consisted from seen\_substr elem

Str: SW & W → ~~seen~~ valid

SWW ⊆ valid

\* Hence SWW is the very 1<sup>st</sup> valid substr of req splits

• This process repeats

→ This process repeats until and in the end returns the max-ent