```
Longet common Subseq: 0
                                        complexity
                                                    brutefrce:→
                                        generation of subseq. for styl = 2
  8th - abcd-11 8tr2 = aebd-12
                                                              " str2 = gl2
- - 6-
                                           common & longst >
                                                      for stingle subseq = 2<sup>1</sup>2
                   - - bd
  - -c d
                  - 8 - -
  -b--
                                                      for 2º1 subseq = 2º1 x 2º =
                  - e-d
  - b- d
                  - eb-
 - bc -
                  - e bd
                                                    0 (n<sup>2</sup>)
  - bcd
                                          Allowed z
                  a - - -
                  9 - - d
  q - - d
                               S(abc) =
                  9-6-
  9 - C -
                                                              Subseq (ab)
  9 -cd
                  a - bd
                                                    2 oubser
  9 b- -
                  a e - -
                                          - b c
                                                                              S (M) -
                  ae-d
 ab-d
                                          a - -
                                                                 sub (abc) <
                  9 eb-
                                           \alpha - c
  a bc -
                                           a b-
                  a e bd
  abcd
                                                                       Note
                                           a bc
```

longet (S1, S2) -> generate all subseq. & ampare and update longet length. Longet $(S_1, S_2) \rightarrow longert (S(S), S(S2))$ bull subseq of 82 el ellenped el 8 (92.ch2) 8(r1. ch1) (ab cd) 2(21) - 0 pc a db a - - B B C & 2) rest of further Explore -> Soht mg 71+52 [8(2)-] = previou (8(m) Ch2 7 S(r2) Ch2 - db (4) S(n) Chi — $s(r_2)$ Chi2 abc s(n) chl Froeze





