

1)

| i \ j | | a | p | p | a | r | e | n | t | |
|-------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| a | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | a |
| d | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| h | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| e | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | |
| r | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | r |
| e | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | e |
| h | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 4 | n |
| t | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | t |

Ans a r e n t LCS : 5

time : $O(m \times n)$ m คือ ขนาด String 1
space : $O(m \times n)$ n คือ ขนาด String 2