- Compute the Longest Common String (LCS) between LEAR and EARN using dynamic programming (DP) bottom-up approach. (40 pts)
 - Fill in the matrix and compute the length of the LCS. Include backtracking arrows or mark
 - Backtrack to determine the LCS

	j	0	1	2	3	4
i	0	0	E	Α	R	N
0	0	0	0	0	0	0
1	L	0	O	0	0	0
2	E	0	1 4	-1 4	_	_
3	Α	0	1	2	-2 €	- 2
4	R	0	1	2	3	-3



Fill in the m		the length of th	e LCS. Include b	M and ALIGNMEN acktracking arrow	s or marks			proach. (60 pts)	I co	oun n opo	NS BN
	j	0	1	2	3	4	5	6	7	8	9
i	0	9	Α	L	I	G	N	M	E	N	Т
0	0	0	0	0	G	0	0	0	0	0	0
1	Α	O		-1 <	- 1 4	- 1 6	- 1 <	-1 4	- 1 -	-1	-1
2	L	0	1	2 4	-2	-2	-2	126	- 24	- 2	-2
3	G		1	12 4	-2	3	3 4	-3 4	-3 6	-3	-3
4	0	Ö	T	12 4	-2	13	-3 4	-34	-3 4	-34	-3
5	R	D	1	124	- 2	13	34	- 3	13	13×	-3
6	I	0	1	12	3	-3	13	13	-3	¥3,	13
7	T	D	1	1 2	13	- 3	13	+3	13	43	4
8	Н	0	1	12	13	3	-3	-3	-3	-3	14
9	М	0	11	1 2	13	13	13	4	€4	- 4	× 4
(ALIM)											•