

- How similar are EXERCISE and EXIRSAIS ?

B



- 'exercise' vs. 'zexercises' ; 'page' vs. 'ages'

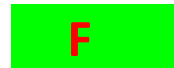
B



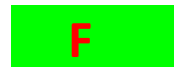
B



F



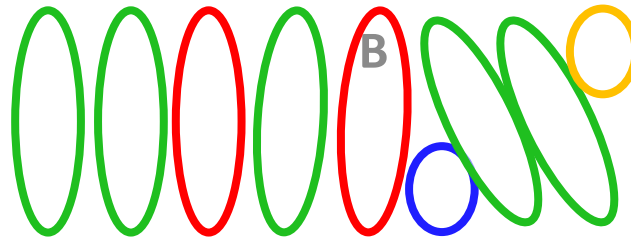
F



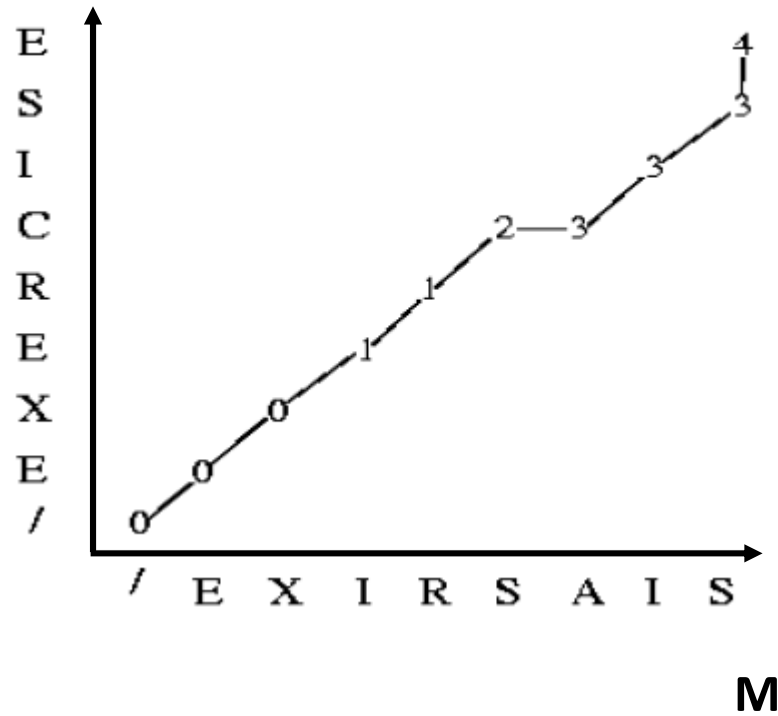
MB *matching* *sequences*

MB

M



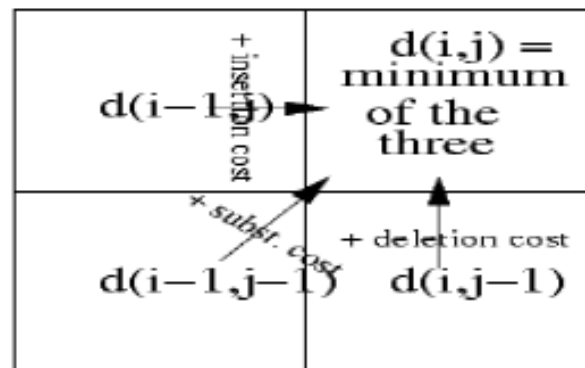
MB



- M MB MB M
-

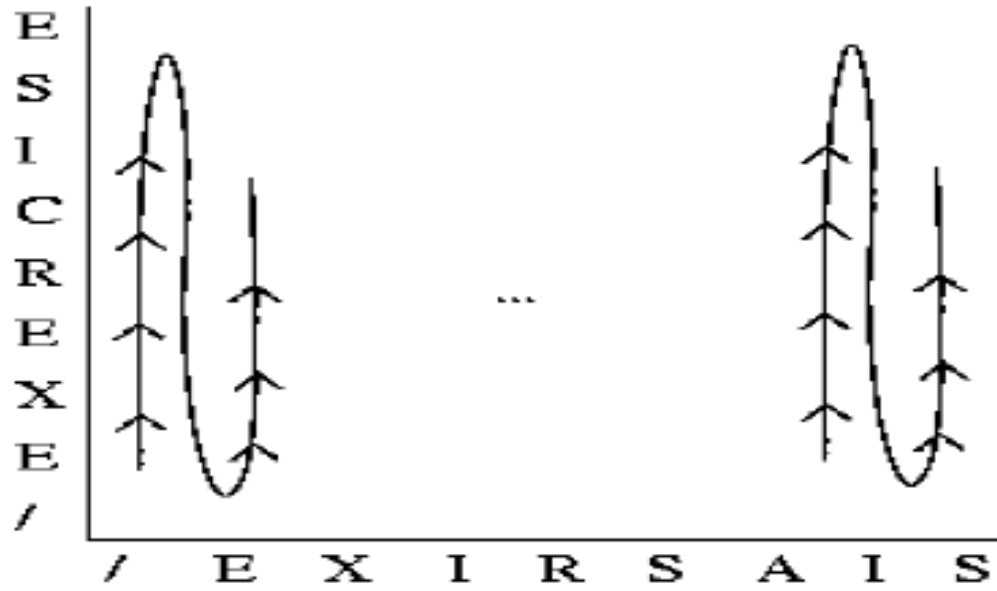


- Substitution (cost=0 for matching characters in observation and reference)
- Deletion (1 character in reference string, no character in observation string)
- Insertion (no character in reference string, 1 character in observation string)



B

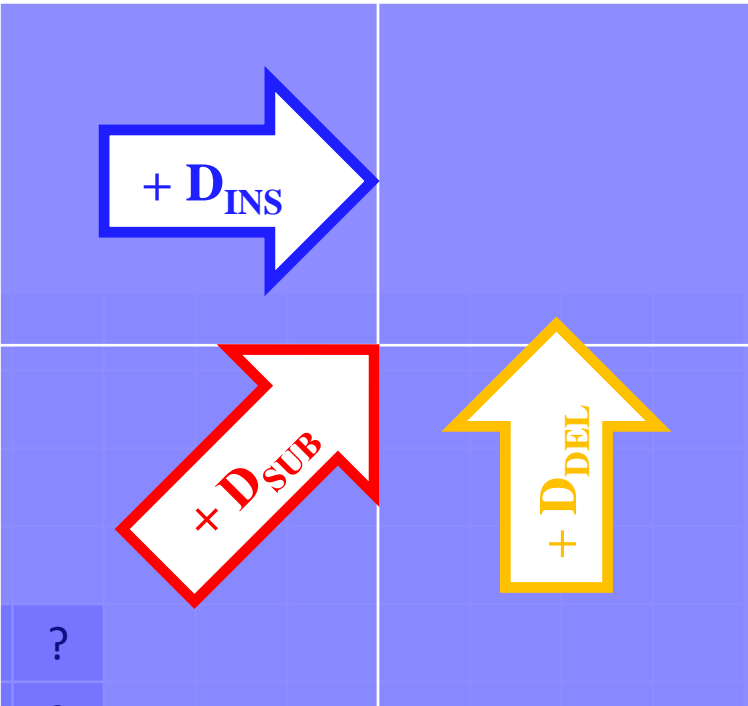
- -
 -
 - compute column by column
 - compute each column bottom to top



B

	1	0	1	1	1	1	1	1	1
	1	1	1	1	1	0	1	1	0
	1	1	1	0	1	1	1	0	1
B	1	1	1	1	1	1	1	1	1
	1	1	1	1	0	1	1	1	1
	1	0	1	1	1	1	1	1	1
	1	1	0	1	1	1	1	1	1
	1	0	1	1	1	1	1	1	1
	0	1	1	1	1	1	1	1	1

	8								
	7								
	6								
B	5								
	4	?							
	3	2							
	2	1							
	1	0							
	0	1							



B

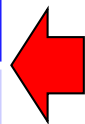
	1	0	1	1	1	1	1	1	1
	1	1	1	1	1	0	1	1	0
	1	1	1	0	1	1	1	0	1
B	1	1	1	1	1	1	1	1	1
	1	1	1	1	0	1	1	1	1
	1	0	1	1	1	1	1	1	1
	1	1	0	1	1	1	1	1	1
	1	0	1	1	1	1	1	1	1
	0	1	1	1	1	1	1	1	1



	8	7	6	5	5	4	4	5	4
	7	6	5	4	4	3	4	4	3
	6	5	4	3	3	3	3	3	4
B	5	4	3	3	2	2	3	4	5
	4	3	2	2	1	2	3	4	5
	3	2	1	1	2	3	4	4	6
	2	1	0	1	2	3	4	4	6
	1	0	1	2	3	4	5	6	7
	0	1	2	3	4	5	6	7	8



Ref					B				
Obs	E	X	I	R	S	A	I	S	-



F M M

• **B**

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M

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B