

# ECS129

## Examples of Sequence Alignments Using Dynamic Programming

In all the example below:

- Fill in the matrix
- Write one of the alignments with optimal score

### Example 1:

*Match: +2; Mismatch 0; Gap 0*

	G	A	T	T	A	G	C
A							
T							
T							
A							
C							

### Example 2:

*Match: +2; Mismatch 0; Gap -2 (no gap cost at the beginning)*

	G	A	T	T	A	G	C
A							
T							
T							
A							
C							

### Example 3

*Match: +1; Mismatch: 0; Gap: -1 (no gap cost at the beginning)*

	I	N	D	U	S	T	R	Y
I								
N								
T								
E								
R								
E								
S								
T								

### Example 4

*Match: +10; Mismatch: -5; Gap: -5 (no gap cost at the beginning)*

	I	N	D	U	S	T	R	Y
I								
N								
T								
E								
R								
E								
S								
T								

