

# General Gap Penalties

AAAGAATTCA  
A-A-A-T-CA

vs.

AAAGAATTCA  
AAA-----TCA

Previous DP no longer works with general gap penalties because the score of the last character depends on details of the previous alignment:

AAAGAAC  
AAA-----

vs.

AAAGAAATC  
AAA-----

Instead, we need to “know” how long a final run of gaps is in order to give a score to the last subproblem.