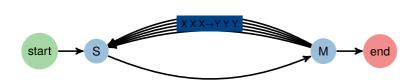
a) Substitution



Sequences

X: input nucleotides

Y: intermediate nucleotides

Z: output nucleotides

Ø: nothing/empty sequence

Parameters

g: gap open weight

e: gap extension weight

 $\pi\colon$ nucleotide stationary frequency

