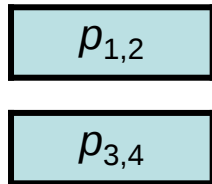


Discrete
Profiles



Pairwise Alignment

$E_{1,2,3,4}$

Edit
Operations
(Mis)Match, Insert, Delete

Edit
Operations

$E_{1,2,3,4}$	M	M	M	M	D	M	M	M	D	D
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Aligned
Discrete
Profiles

$p_{1,2}$	8	16	17	17	16	16	16	17	3	3
$p_{3,4}$	11	16	17	17	-	16	16	17	-	-



Aligned
Sequences

s_1	-	A	C	C	A	A	A	C	C	C
s_2	A	A	C	C	A	A	A	C	-	-
s_3	C	A	C	C	-	A	A	C	-	-
s_4	A	A	C	C	-	A	A	C	-	-