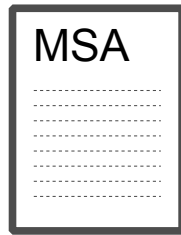


A.

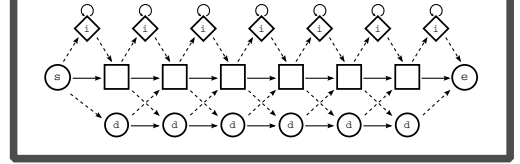
N seqs



hmmbuild



profile HMM



B.

hmmsearch



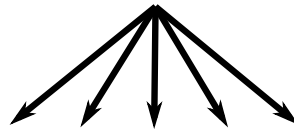
Profile

CEVEAPTAGPTTPNGNPVDECDDQANCHSGTGDDFQLTG...GTTVLTTEKP

ceveaptag+ p+g +++ + +++ t + + t tvltttekp

Sequence i

CEVEAPTAGQPLPMGTWWM - - NVMTRPTATAEQVM - TSSSQVVPTVLTTEKP

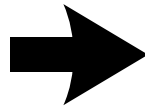
For $i \in [1, N]$

C.

Score Matrix

' '	+	a-z	A-Z
-0.15	-0.08	0.15	0.45

.	.	.
.	.	.
.	.	.
7	t	1
8	a	1
9	g	1
10	+	0.92
11		0.77
12		0.62
13	p	0.77
14	+	0.69
15	g	0.84
16		0.69
17	+	0.61
18	+	0.53
19	+	0.45
20		0.3
21		0.15
22		0
23	+	0
.	.	.
.	.	.
.	.	.



D.

Low Similarity Segment

