

last homework: GAAT, CAC

$m=1, \text{min}, \rho = -1$

	0	G	A	A	T
0	0	-1	-2	-3	-4
C ₁	-1	-1	-2	-3	-4
A ₂	-2	-2	0	-1	-2
C ₃	-3	-3	-1	-1	-2

$m=1$
 $\text{min} = -1$
 $\rho = -1$

CAC-
 GAAT -2
 -CAC
 GAAT -2
 C-AC
 GAAT -2
 CA-C
 GAAT -2

4 opt. al's.

	0	C	A	C	A	C
0	0	-1	-2	-3	-4	-5
G ₁	-1	-1	-2	-3	-4	-5
A ₂	-2	-2	1	0	-1	-2
A ₃	-3	-3	0	0	2	1
G ₄	-4	-4	-1	-1	1	1
A ₅	-5	-5	-2	-2	1	0

$m=2, \text{min}, \rho = -1$

6 opt. alignments

GA-AGA
 CACAC-
 -1 2 -1 2 -1 -1 = 0

GAAGA-
 C-ACAC
 -1 -1 2 -1 2 1 = 0

GA-AGA
 CACA-C
 -1 2 -1 2 -1 -1 = 0

GAAGA-
 -CACAC
 -1 -1 2 -1 2 -1 = 0

GAAGA-
 CAC-AC
 -1 2 -1 -1 2 -1 = 0

GAAGA-
 CA-CAC
 -1 2 -1 -1 2 -1 = 0