Matrice A

	G	T	A	T	T
G	1	0	0	0	0
T	0	1	0	1	1
G	1	0	0	0	0
A	0	0	1	0	0
C	0	0	0	0	0
C	0	0	0	0	0
T	0	1	0	0	0

Matrice X

	G	T	A	T	T	z	
G	1	0	0	0	0	0	
T	0	1	0	0	0	0	
G	0	0	0	0	0	1	gap
A	0	0	1	0	0	0	
C	0	0	0	0	0	1	gap
C	0	0	0	0	0	0	mismatch
T	0	0	0	0	1	0	

y	0	0	0	0	0

mismatch

Allineamento ottimo	G	T	-	A	-	T	T	score
	G	T	G	A	C	C	T	
Premi/penalità	1	1	-1	1	-1	-1	1	**1**