8. Übung

-8.1

```
> library(Biostrings)
> s1 <- "GAATC"
> s2 <- "CATAC"
> sigma <- nucleotideSubstitutionMatrix(match = 10, mismatch = -5, baseOnly = TRUE)</pre>
> sigma
  ACGT
A 10 -5 -5 -5
C -5 10 -5 -5
G -5 -5 10 -5
T -5 -5 -5 10
> alignment <- pairwiseAlignment(s1, s2, substitutionMatrix = sigma, gapOpening = -4,
                                 gapExtension = -4, scoreOnly = FALSE)
Global PairwiseAlignmentsSingleSubject (1 of 1)
pattern: GA-ATC
subject: CATA-C
score: 9
```

-8.2