

**Algorithms in Genome Research  
Winter 2010/2011**

**Exercises**

**Number 4, Discussion: 2010 November 26**

1. What are the special features that a read mapper for cDNA sequences should implement?
2. Construct the splicing graph for the following mRNA reads. How many splice variants can you reconstruct?  
AATAGGATTCAGG, CCTAGTTAGTTCA, CTCACCTAGTTCA, GTTAGTTCAGGAC, CTAGCCGATCGAAT,  
AGGAGGAGGAT, AGGATTCA, CTAGCGAATAG
3. Find 3 (different) pairs of splice variants that can not uniquely be resolved in quantitative transcriptomics.