Each student should belong to exactly one of the groups A, B and C. The groups are assigned at the lecture on Thu 1.10. If you were not present at the lecture, please contact the lecturer and ask for your group.

**Group A: Random assignment at lecture**

- Read the subsection titled *Epilogue: Synteny Block Construction* on pages 293–300 in the course book by Compeau & Pevzner.
  
  Also watch the lecture video by Pavel Pevzner at [https://youtu.be/vTbQA8vV31Y?list=PLQ-85iQ1PqF0cGz6A3g2ZArRL09Ffpp_N](https://youtu.be/vTbQA8vV31Y?list=PLQ-85iQ1PqF0cGz6A3g2ZArRL09Ffpp_N)

- At the study group solve the “exercise break” problems and discuss the “STOP and Think” questions in the subsection. What can go wrong with a wrong choice of the parameters maxDistance and minSize?

**Group B: Random assignment at lecture**

- Read about an optimal algorithm for sorting by reversals, particularly Sections 4 and 5 in the following article:

  Bader, Moret, Yan: *A Linear-Time Algorithm for Computing Inversion Distance between Signed Permutations with an Experimental Study.* Journal of Computational Biology. October 2001, 8(5): 483-491. [http://dx.doi.org/10.1089/106652701753216503](http://dx.doi.org/10.1089/106652701753216503)

- At study group, discuss the basic ideas of the method based on the Figs. 1 and 2.

**Group C: Random assignment at lecture**

- Read the section *Methods* in the following article:


- At study group, discuss the basic ideas of the method based on Figure 3.