After-class exercise: genome liftover

You are provide with a genomic file in .tsv format. Your task is to convert the coordinates to hg38 for all the data entires using local programs.

- 1. Convert other files to the BED format (programmatically).
- 2. Use the liftOver program locally:
 - a) Copy the liftOver program to you local folder
 - b) Try it out: ./liftOver
 - c) Read the help of liftOver and understand the basic parameters
 - d) convert the segments file, which you should have converted to the BED format, to hg38 using liftOver locally.
- 3. Use segment_liftover:
 - a) Read the paper or github of segment_liftover and understand what does it do
 - b) Setup Python virtual environment:
 - python3 -m venv myenv source myenv/bin/activate pip install --upgrade pip
 - c) Install segment_liftover: pip install segment_liftover
 - d) Read the instructions of segment_liftover
 - e) Use segment_liftover to convert the segment file again.
 - f) Compare the results with liftOver and make a simple analysis.
 - g) When you finish: deactivate