GGG 201B: Assignment 1

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- 1. What quality type are these reads, phred+33 or phred+64? How can you tell? (be specific) These reads are phred+33 type. I found #ś at the ends of reads as an indicator and used the python program at https://github.com/brentp/bio-playground/blob/master/reads-utils/guess-encoding.py to confirm.
- 2. Use a unix command to get only the first 250,000 fastq reads and write them to a file. What command would this be?

 $head \ -n \ 1000000 \ Rice1.fq > Rice1reduced.fq$

We use 1,000,000 (= 250,000 * 4) because each read is made up of 4 lines.

3. How many reads were rejected?

15733

15

5. How many well-mapped reads were found in gene LOC_Os01g64330?