6.S977	**Problem Set 1**	# Reverse-engineering mRNA vaccine
Name:		February 14, 2022
Collaborators:		

(a) Read Ben Hulbert's blog post titled *Reverse Engineering the source code of the BioNTech/Pfizer SARS-CoV-2 Vaccine* (https://berthub.eu/articles/posts/reverse-engineering-source-code-of-the-biontech-pfizer-vaccine/).

(b) Download *pfizer.fasta* and *moderna.fasta* from the course website.
Perform sequence alignment of Pfizer and Moderna vaccine sequences using EMBOSS Water (https://www.ebi.ac.uk/Tools/psa/emboss_water/) or your favorite sequence aligner.
Annotate the alignment result yourself, clearly showing the sequence elements (5'-UTR, cap, etc.) discussed in the blog post.
Briefly discuss the similarities and differences between two vaccine sequences.