多序列比对

总分: 30

1.Install PSI-BLAST and nr database in your PC and run PSI-BLAST for at least one protein sequence randomly selected from PDB (e.g., from the first project).

PSI-BLAST is available at:
ftp://ftp.ncbi.nlm.nih.gov/blast/executables/blast+/LATEST/

nr database (~2G) is available at the course website: https://share.weiyun.com/x0rvvYb0

You should report the MSA and the PSSM matrix of your query sequence.

2. Deduce the formula of weighted profile-profile alignment:

$$S(i, j) = \vec{f_i} \cdot \vec{p_j}$$

3.* （选做题）Write a program for profile-profile alignment (the inputs to your program are two MSAs)