

Practice problems

1. Do all the homeworks completely on your own.
2. Do homework 16 using lists instead of a dictionary.
3. Know the definition of a sequence alignment and how to score one.
4. Conversion between for and while loop

Convert the following for loops into while.

1. `for i in range(0, 10, 1):`
2. `for i in range(0, 15, 2):`
3. `for i in range(0, len(sequence), 1):`
 `if(sequence[i] == 'A'):`
 `break`

Convert the following while loops into for.

1. `j = 0`
 `while (j < 10):`
 `j = j + 2`
2. `j = 10`
 `while(sequence[j] != 'A' and j < 100):`
 `j = j + 1`

5. Conversion between data formats
 - a. FASTA non-interleaved/interleaved to PHYLIP interleaved
 - b. FASTA non-interleaved to interleaved and vice-versa
 - c. PHYLIP non-interleaved to interleaved and vice-versa