

Demultiplex A1 part 2 Pseudocode

Open files as R1, R2, R3, R4:

headers, seqs, qscores = {}, {}, {}

matches, unknowns, Ihops = 0, 0, 0

for each record:

extract headers, seqs, qscores with "R1"~"R4" as keys ← (using readline() x4 to get the whole record)

convert R3 to its RC

concatenate R2 + R3 seqs to R1 + R4 headers

if ("N" in R2UR) or (R2 or R3 not in index-list):

write records to corresponding "unknown" output files (FW + RV)

unknowns += 1

elif R2 == R3:

write records to "R2-R3" output files (FW + RV)

matches += 1

else:

write records to "index-hopped" output files (FW + RV)

Ihops += 1

(overwriting the dict entries each loop)