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Pseudocode
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Loop through 4 files
    Make 4 lists for each record (one per file)
If N is in the index OR index not in index-list
    Append index to header
    Put in low quality output file
Revcomp function

If indexes are the same
    Append index to header
    Put in index file
Else
    Append index to header
    Put in swap file

Reportnum function

High level functions

Def revcomp(index):
‘’’Takes index, writes complementary strand to it, and then reverses it to get it in 5’ - 3’ direction. Returns the output reverse complement of index.
Example input: ACTG
Output: CAGT

Def reportnum(file, category):
‘’’Takes output file and counts the number of read-pairs included in that file’s category. Categories include: “match”, “swap”, “unknown” if the category is swap, function will also return number of unique index combinations.’’’
Example input: FASTQ file with 5 properly matched indexes, “match”
Output: “5 matched indexes in FASTQ file”
Example input: FASTQ file with 3 swapped indexes (2 same, 1 unique), “swap”
Output: “3 swapped indexes, 2 AAA CCC, 1 AAA TTT”