

Read Sam



Sort by Chromosome, Position



Store lines in the sam files
into a list



Iterate through two lines at a time



(check each line (read) for
strand orientation through
the bit wise flag (Function))



Both
reads are
the same

Function



Run soft
clip forward
function for
forward strand
orientation

Function



Run
soft clip
reverse function
for reverse
read strand
orientation

UMI

UMI

If either UMI in
record list
write to deduper.
sam

Not PCR Duplicates
↓

Both reads
opposite
strands



Write to
deduper.sam
file

Else:
write to
duplicates.sam

