Problem: map NGS reads to a genome

```
Solution:

--runThreadN 8 \
--genomeDir $INDEX \
--genomeLoad LoadAndKeep \
--readFilesIn $INPUT/$FILE \
--readFilesCommand zcat \
--outFileNamePrefix $0UTPUT/$SAMPLE. \
--outSAMtype BAM Unsorted \
--outSAMstrandField intronMotif
```

```
STAR-alignReads.sh
INPUT=$1
INDEX=$2
OUTPUT=$3
STAR ——genomeDir $INDEX ——genomeLoad Remove
                                                      Load the index into "mapped memory"
ls $INPUT | grep "[.]fq[.]gz$" | while read FILE; do
    SAMPLE=`basename "$FILE" _trimmed.fq.gz`
    STAR \
        --runThreadN 8 \
        --genomeDir $INDEX \
        --genomeLoad LoadAndKeep \
        --readFilesIn $INPUT/$FILE \
        --readFilesCommand zcat \
        --outFileNamePrefix $0UTPUT/$SAMPLE. \
        --outSAMtype BAM Unsorted \
        --outSAMstrandField intronMotif
done
```

Map reads

STAR ——genomeDir \$INDEX ——genomeLoad Remove



Unload the index