

```
# A list of sequences converted into k-mer counts.
records: list[KmerSeq]
# Randomise the order of the records
shuffle(records)

# The size of the divergent set.
n: int

# SummedRecords sorts records by their delta-JSD. The record
# with the lowest delta-JSD is excluded from the N-1 set.
sr = SummedRecords.from_records(records[:n])
for r in records:
    # Is  $JSD(\{N-1\} \cup \{r\}) > JSD(\{N\})$ ?
    if sr.increases_jsd(r):
        # Create a new SummedRecords instance from  $\{N-1\} \cup \{r\}$ .
        sr = sr.replaced_lowest(r)
```