# Distributed Sorting

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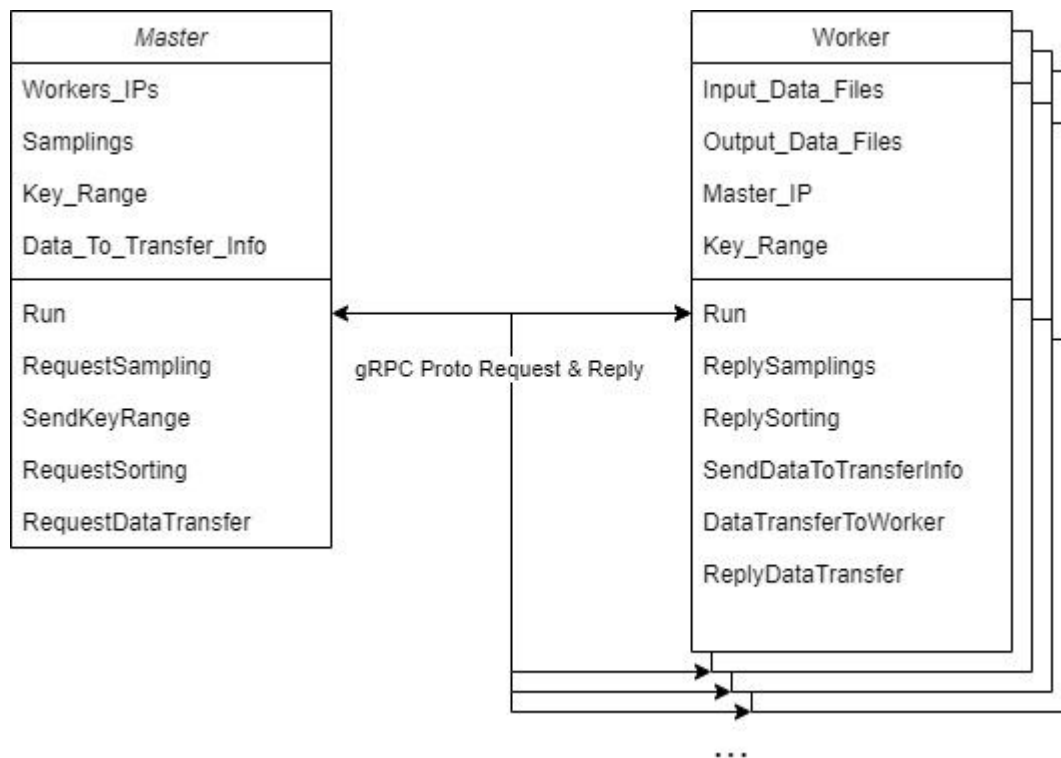# Logistics

Physical meetings twice a week

- Goal of the week
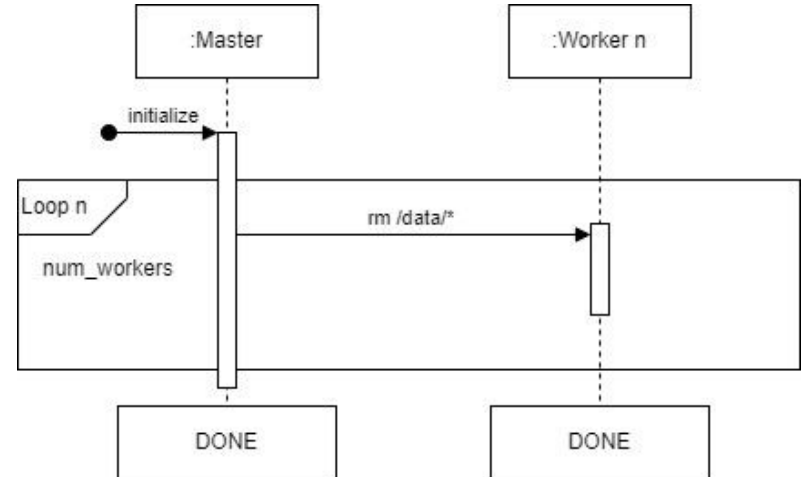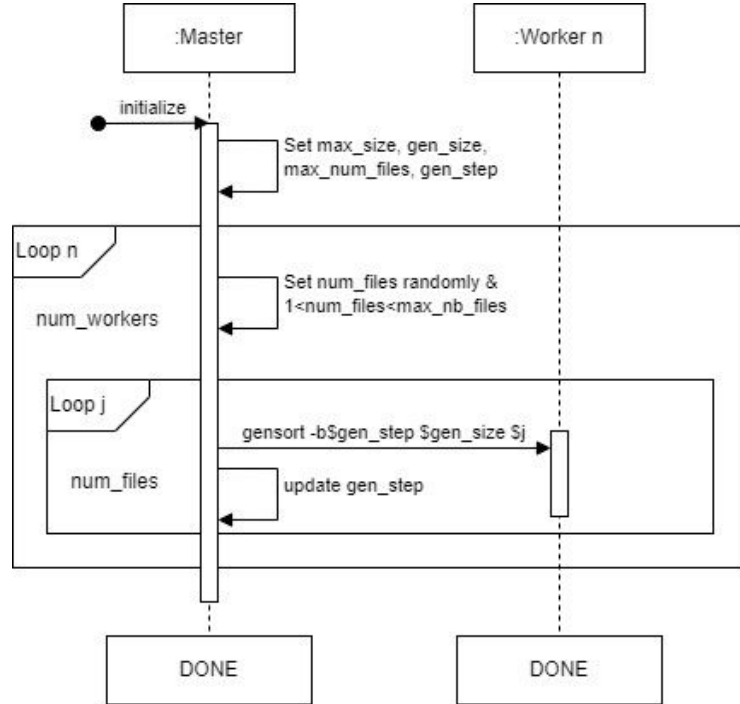- Parallel working (specific tasks)
- Progress evaluation
- Brainstorming

# Milestones

- ➢ Milestone #1 (**Design**):
  - ○ Design Solution
  - ○ Formation gRPC library
  - ○ Generate input data
- ➢ Milestone #2 (**Coding**):
  - ○ Scala class of Master & Worker using gRPC library
  - ○ Sampling procedure
  - ○ Sorting
- ➢ Milestone #3 (**Transfert Protocol**):
  - ○ Partitioning
  - ○ Shuffling
  - ○ Merge
- ➢ Milestone #4 (**Improvement**):
  - ○ Paralleling sorting inside each worker

# Overall Design

# Sequence Diagram - Data Management

# Details

- Communication library : gRPC
- Programming environment : Scala & Bash
- Logging : Further investigation needed
- Input datasets Generation is DONE (Bash script)

# Additional Files

First Draw of Complete Execution Sequence Diagram - GitHub