## Recovery

Given a concurrent execution trace, create corresponding log file and perform recovery using that log file. At the end display the recovered values of all data items.

## Operations

• Start Transaction: S

Parameter: Transaction id

Format of log entry:

S

Transaction id

• Read operation: R

Parameters: Transaction id, Data id

Format of log entry:

No log entry required.

• Write operation: W

Parameters: Transaction id, Data id, Value

Format of log entry:

W

Transaction id

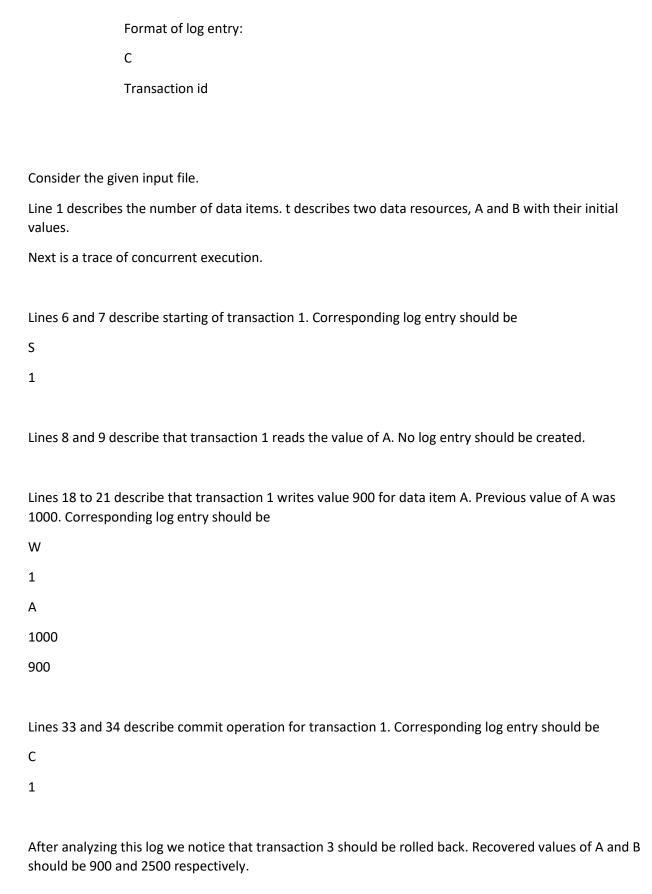
Data id

Old value

**New Value** 

Commit operation: C

Parameters: Transaction id



Read from the standard input.

Write log file and recovered values to standard output.

Submit single code file <roll\_number>\_recovery.cpp