

Family name:..... Given name:.....

1) (30%) Which two kinds of schema information contains the **Global Conceptual Schema** that does not contain the **Local Conceptual Schema** in the Extended ANSI-SPARC Architecture for DDBMS?

- a)
- b)

2) (40%) If you have a stream of messages that arrive at a rate of 10.000 per second accounting for 512MB per hour, how many RDD will process your **Spark Streaming** process in one hour? Explicit all the assumptions you make.

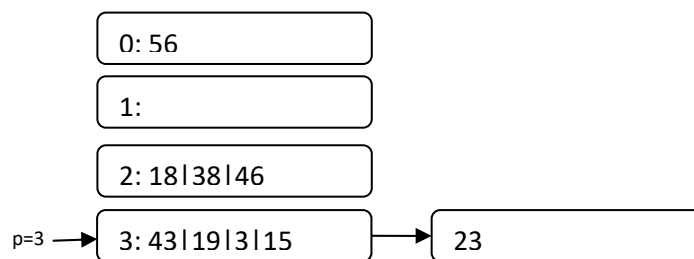
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3) (30%) Briefly explain what is wrong in this **linear hash** structure, or if you think it is right, explicitly say so.



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