# The discrete Log Problem

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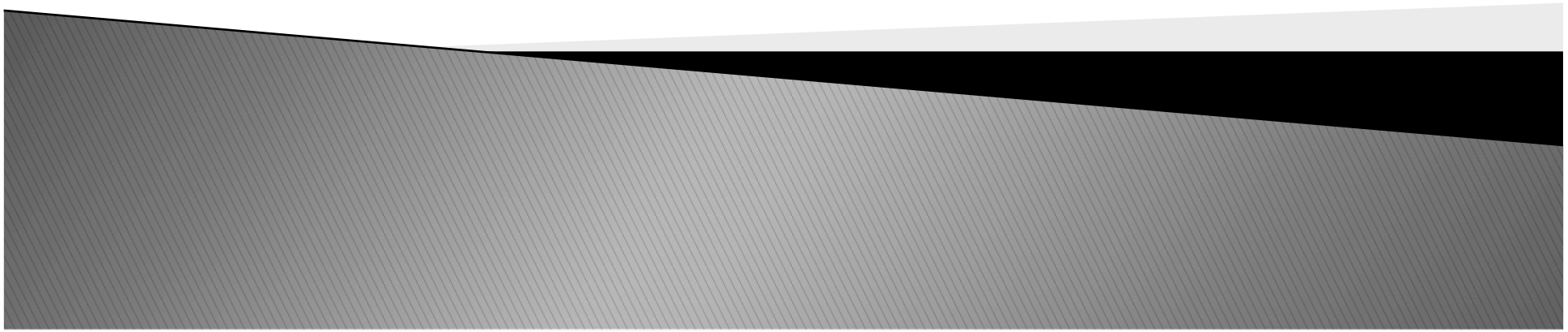
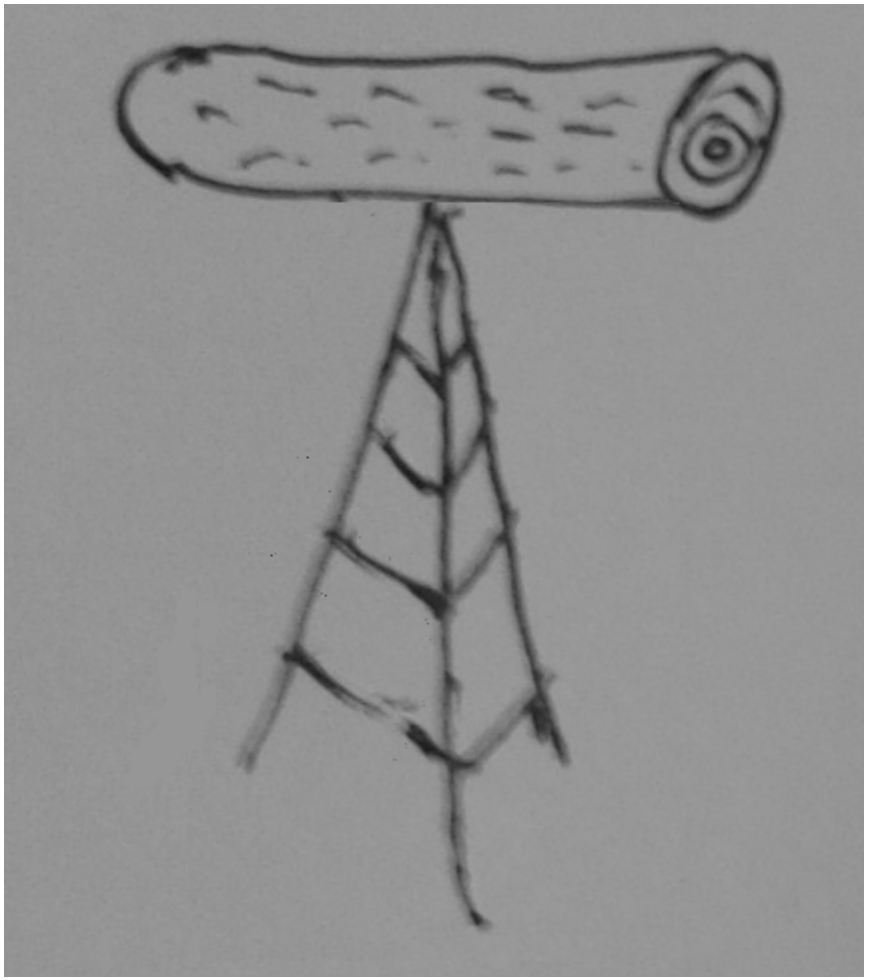


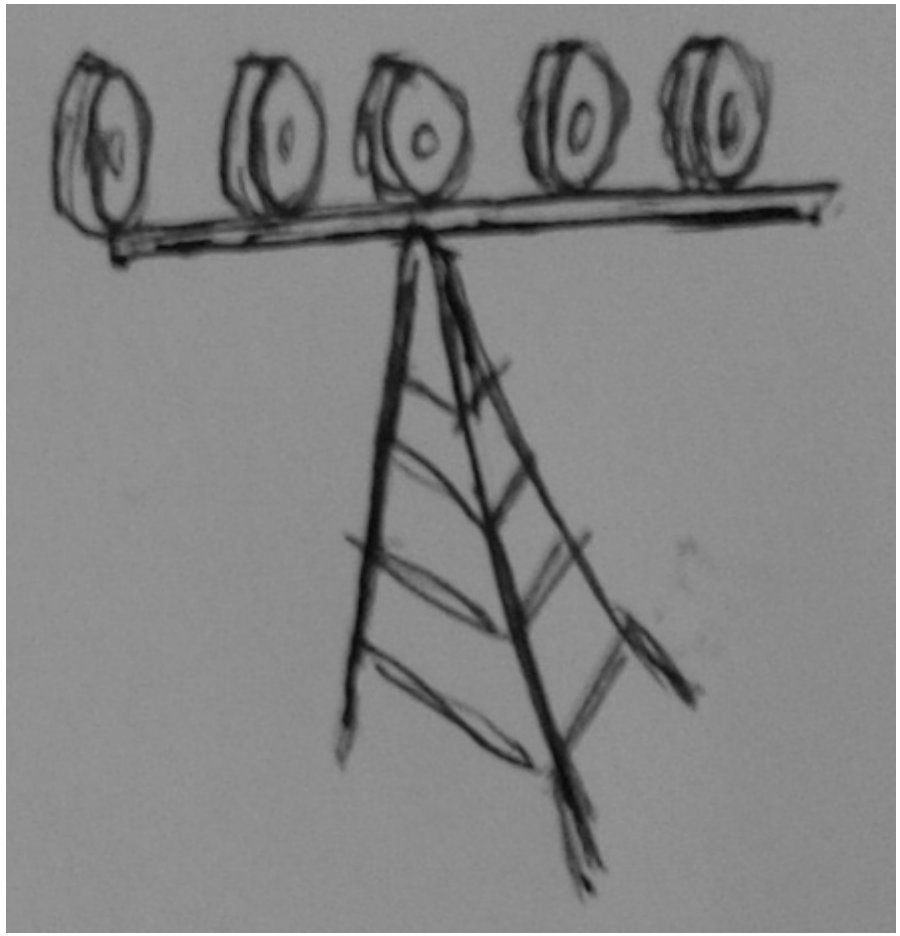
# The log problem

- Raise a big log on the top of power generator (transmission tower).
- Problem: Retrieve the log

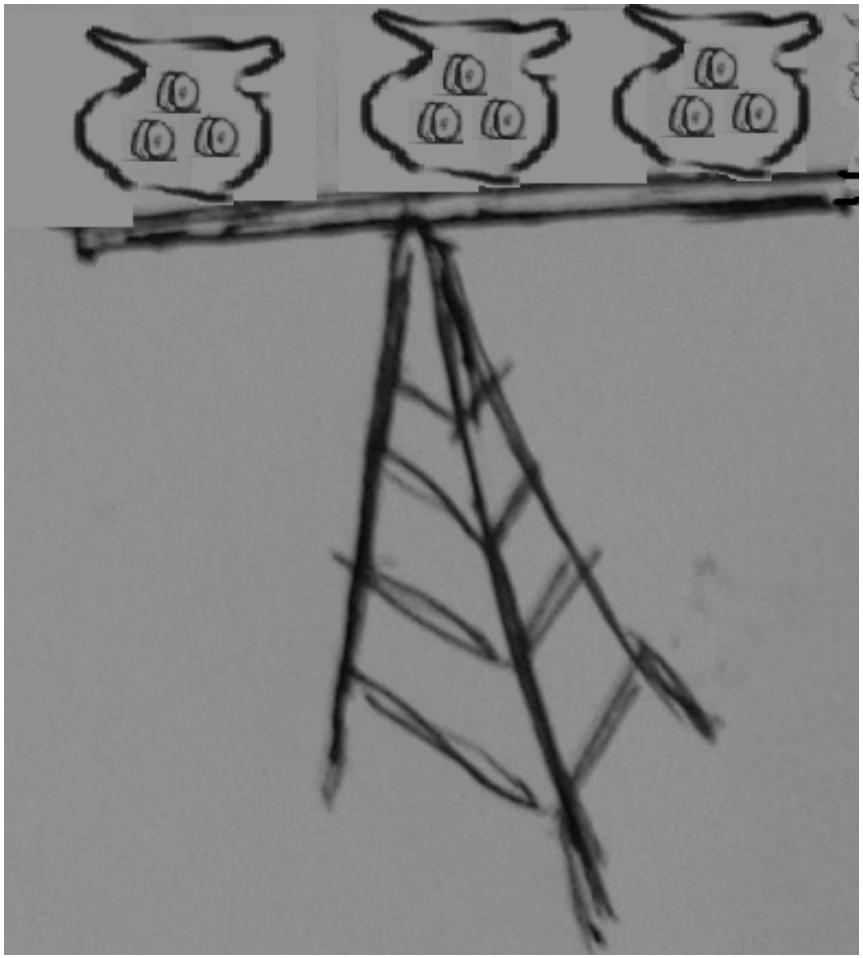


# The discrete log problem

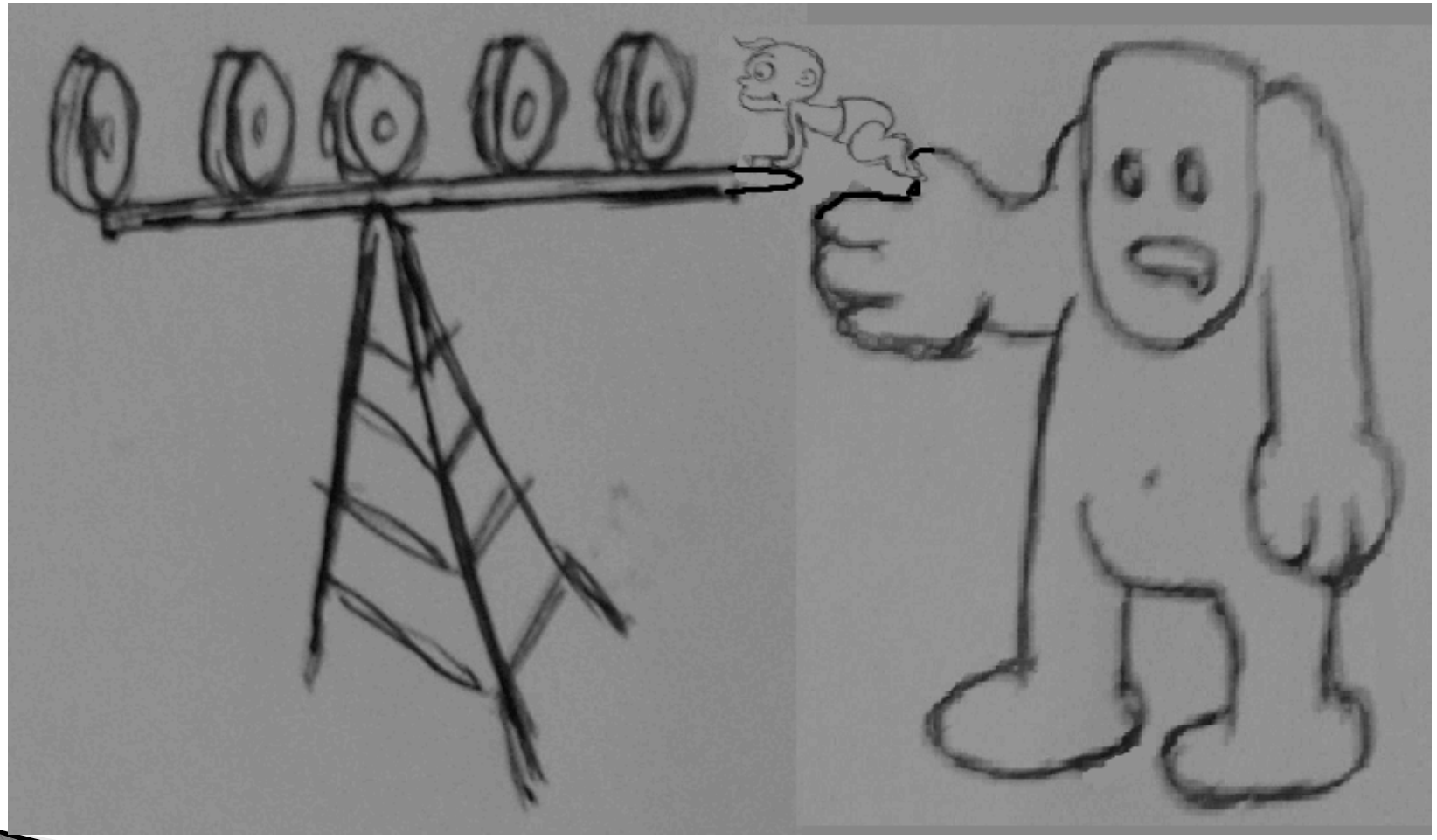
- In this case the log is discretized



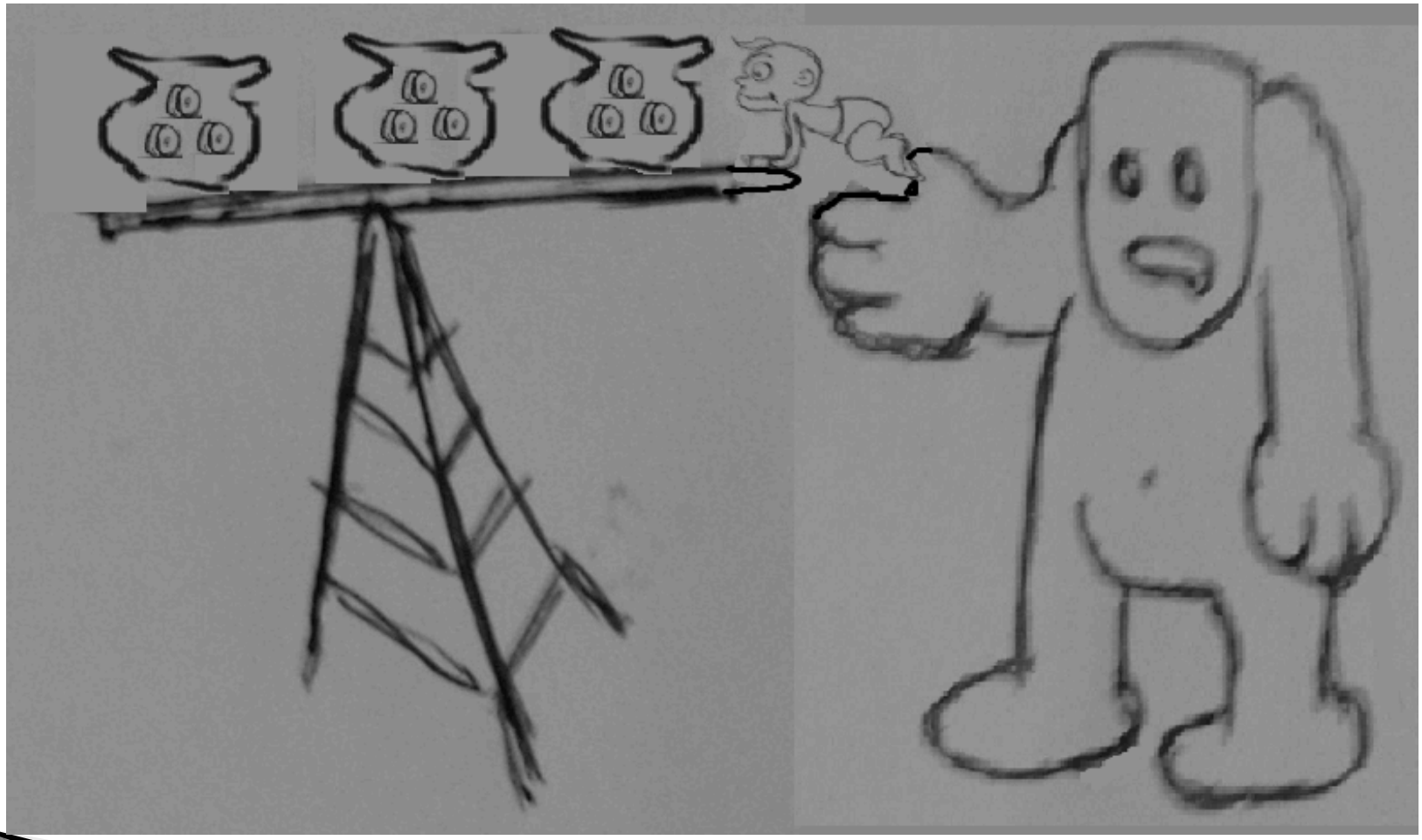
# Discrete Log problem on groups



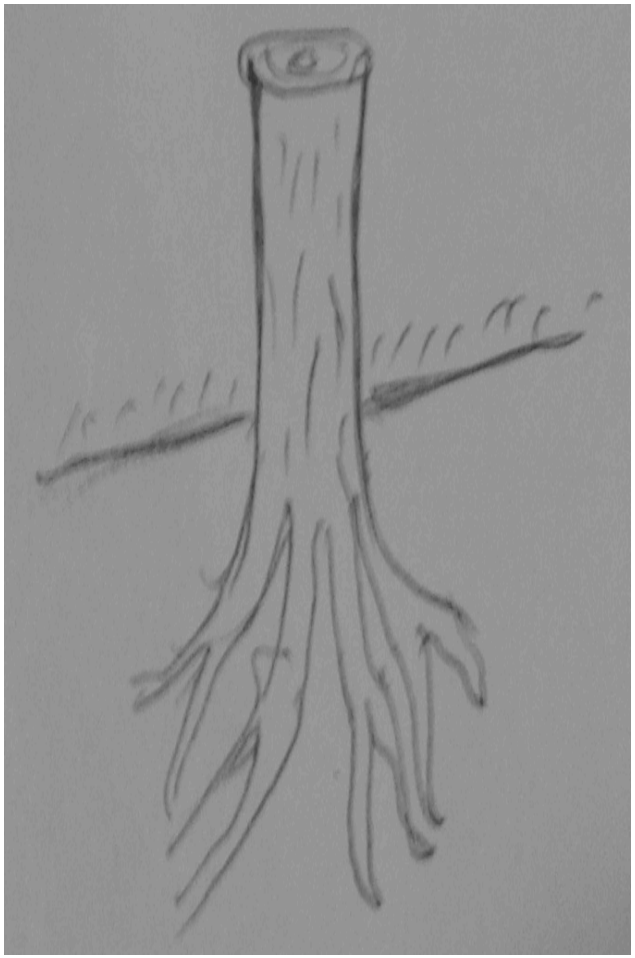
# Baby step Giant step



# Index Calculus



# Square root method



1. Up root a big tree
2. Make a log out of it
3. Output the log in whole or discretized

# On curves

- The index calculus does not work (as it is very dangerous for the baby)
- But the square root algorithm still works.