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Query Optimization

13. Exercise, Winter 2007/2008

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1. Given a relation with 6 tuples and 3 pages (2 tuples per page). Compute (manually) the average number of accessed pages when reading 2 tuples. (4)
2. Give three queries where the Yao formula can be useful during optimization. (4)
3. Given a relation with 1000 tuples and 100 pages. Plot the expected number of accessed pages when reading 1-1000 tuples using the Yao formula. Include the approximation by Bernstein et al. for comparison. (2)