

Surname: _____ Name: _____

- 1) (25%) Assume that there is a table T with attributes [A,B,C] (the underlined attribute is the primary key of the table), which occupies 300 disk blocks of 8KB each, with 100bytes per row. All three attributes require the same space (even in case of compression). Supposing that there is not any index, which would be the **minimum amount of memory required to process** (do not consider the memory required to store the final output of the query) the following query in either row storage or column storage (briefly **justify** your answer and explicit any assumption you make).

SELECT A FROM T WHERE B='x' AND C='y';

- a. Row storage: _____

- b. Column storage: _____

