BW2-1

(a) Each block contains 3 records.

First block has record 0 to record 2, second block has record 3 to record 5, third block has record 6 to record 8, fourth block has record 9 to 11.

50, id=76766 (record 9) is in block-4.

(Ans:)

(b) In order to execute above query, the head must come to block-4. At first, it requires I seek to come from track 1000 to 0. Then, four block transfers occur for it to reach the id=98345 record.

(c) Here,

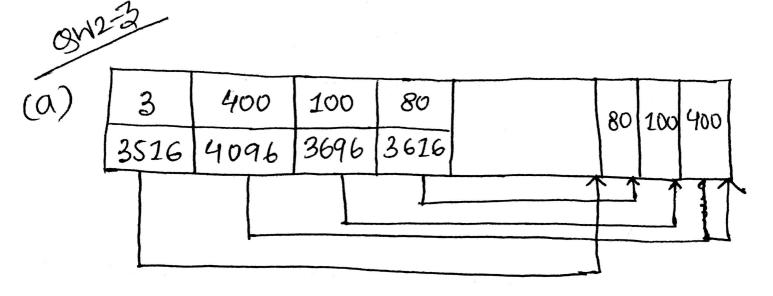
No. of block transfers = 4.

No. of seek = 1.

(Ans:)

BW2-2

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(b) Delete last record: No of entries in block' header decreases by 1 and end of free space advances to the right by size of last record.

Delete first record: No. of entries in block header decreases by 1. All the other entries advance to the right by the amount equal to size of first record.

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No. of entries in block header decreases by 1. All the records located after deleted record advance towards the right by the amount equal to size of deleted record.

The relation name is a primary key in the relation metadata. So, no duplicate table name is allowed when a previously used table name is used in create statement. The same occurs for views as a view name is primary key in view metadata.

An attribute/index is a primary key along with table name in index/attribute metadata. So, no duplicates are allowed.