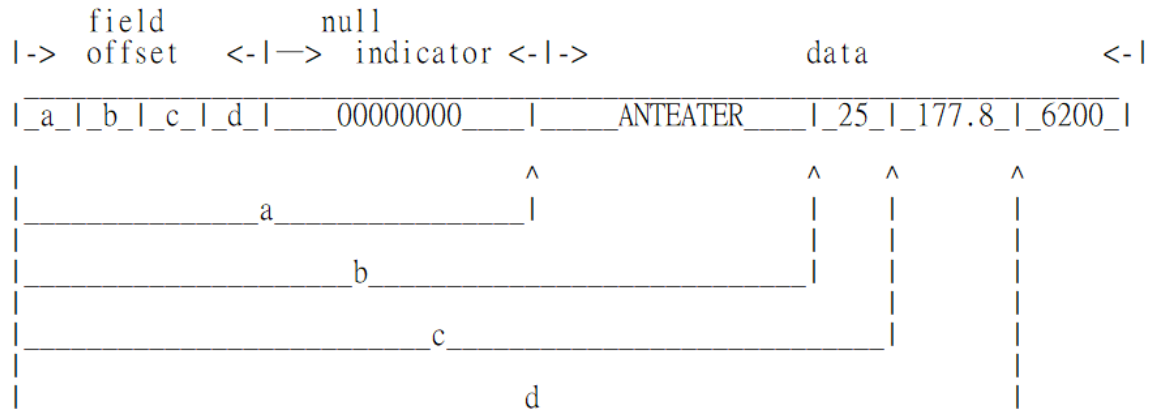


Project1 Report

1. Internal Record Format

- Show your record format design and describe how your design satisfies $O(1)$ field access. If not, just mention that you haven't implemented this feature.
- Describe how you store a VarChar field.



The length of FIELD OFFSET = recordDescriptor.size() * sizeof(short)
 FIELD OFFSET stores the offset of every field. Each of the offset is a short integer which occupies sizeof(short), that is 2KBs. By reading the value in field offset, we can get information (offset, length) of a field and directly access the field we want with $O(1)$.

e.g. get the 2nd field of data

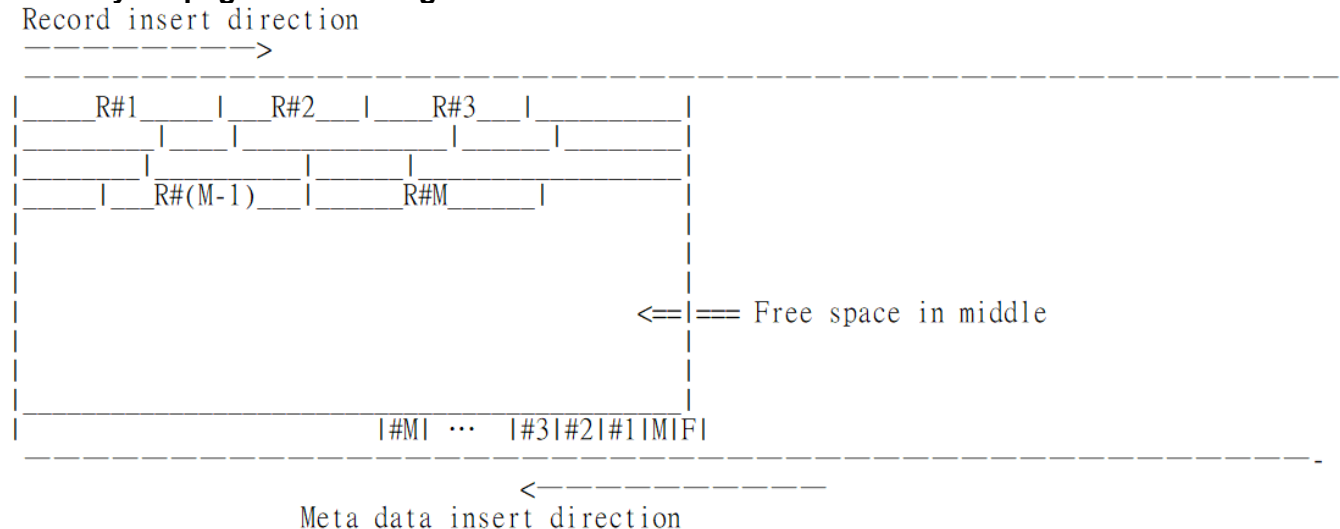
offset = b

length = c - b

we can read the value by starting from offset(b) with length(c-b)

2. Page Format

- Show your page format design



#n: information of the n-th record, including pointer (2KBs) and length (2KBs)

Since records and meta data are inserted from the opposite direction, they will eventually meet each other in the middle of page. However, there may be a space within several KBs that is too small to write data.

- Other implementation details goes here.

A: appendPageCounter

