Project: Stage 1
The Index Structures

Due: Wednsday, February 11, 2009, midnight.

API

Addresses

In order to be able to test various implementations, you are asked to implement a container class for the disk addresses, `DiskAddress`. Please refer to the “XML Indexing Schema” handout for information about disk addresses. The following method should be provided and should return a nicely formatted string

- `toString()`: output string representation of the adddress.

We adopt the following API conventions. `DiskAddress` class shall have two **static** methods:

```
public static DiskAddress createAddressByRN(int pageId, int RecordNumber);

public static DiskAddress createAddressByOffset(int pageId, int Offset);
```

These methods will be used by test programs to generate appropriate `DiskAddress` instances.

This specification overrides earlier specifications of the DiskAddress class API.

StructureIndexRecord

Implement the `toString()` method for the `StructureIndexRecord` class. (This is **mandatory**.)

Additionally, feel free to implement the `get` methods for all components of the `StructureIndexRecord` instance. (This is optional, but encouraged).