



United International University

Department of Computer Science and Engineering
CSI 221, Database Management Systems, Spring 2021

In-class Assignment 3, Time: **30 minutes**, Set - B

1. Suppose your hard disk block size is 6KB, each data record size is 3KB and each index record size is 2KB. You have stored 8 data records in the disk as follows: [6]

1	200	...
2	600	...

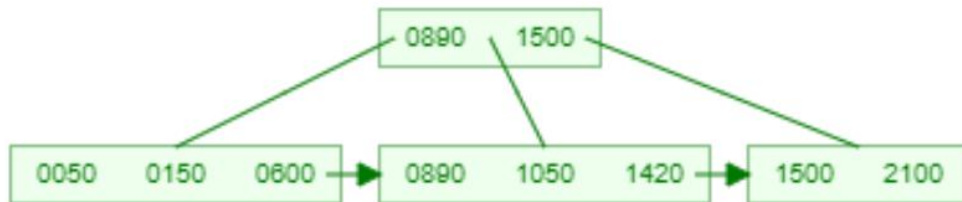
3	800	...
4	300	...

5	900	...
6	1100	...

7	150	...
8	550	...

Now build a secondary dense index structure based on the 2nd attribute of this data.

2. Consider the following B+ tree index structure with maximum degree=4.



Now insert 770 and 1365 sequentially within this B+ tree structure.
[Show each split operation and necessary calculations clearly.]

[7+7]