

For the following disk and B<sup>+</sup>-tree, estimate:

- 1) height of the tree
- 2) blocks required to store the tree

Assume a fill factor of 70% for all nodes.

Disk Parameters

<b>block size</b>	B	1024 bytes
<b>block pointer size</b>	P	6 bytes

Data File and Tree Parameters

number of data records	r	1,800,000 records
record size	R	128 bytes
size of index value for B <sup>+</sup> -tree	V	19 bytes