A screenshot of a computer

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1. **(e) No index**. Since we want to print data of **all** employees.

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1. **(c) Clustered B+ tree index on <floor, budget> field of Dept**. I choose Clustered B+ tree because the result is range result and we want 10th floor less then $15,000 budget, then index on <floor, budget> will sort the data for us to easily query.

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1. **(c) hash-based index on College.enrollment** because hash will store data unordered. So it would be a good candidate only if we have equality selection.

A screenshot of a computer screen

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1. 1. Since Data entry size = 20% of data records. 1 Page can contain  data entries. Moreover, occupancy rate = 67% means 1 page contains only 67%. So, each leaf page contains  data entries.  
   2.  where  is time for fetch data record and  is time for accessing data entries

A screenshot of a computer

Description automatically generated

1. Since occupancy rate = 25%, then number of data pages is 

To find leaf page, the cost is 