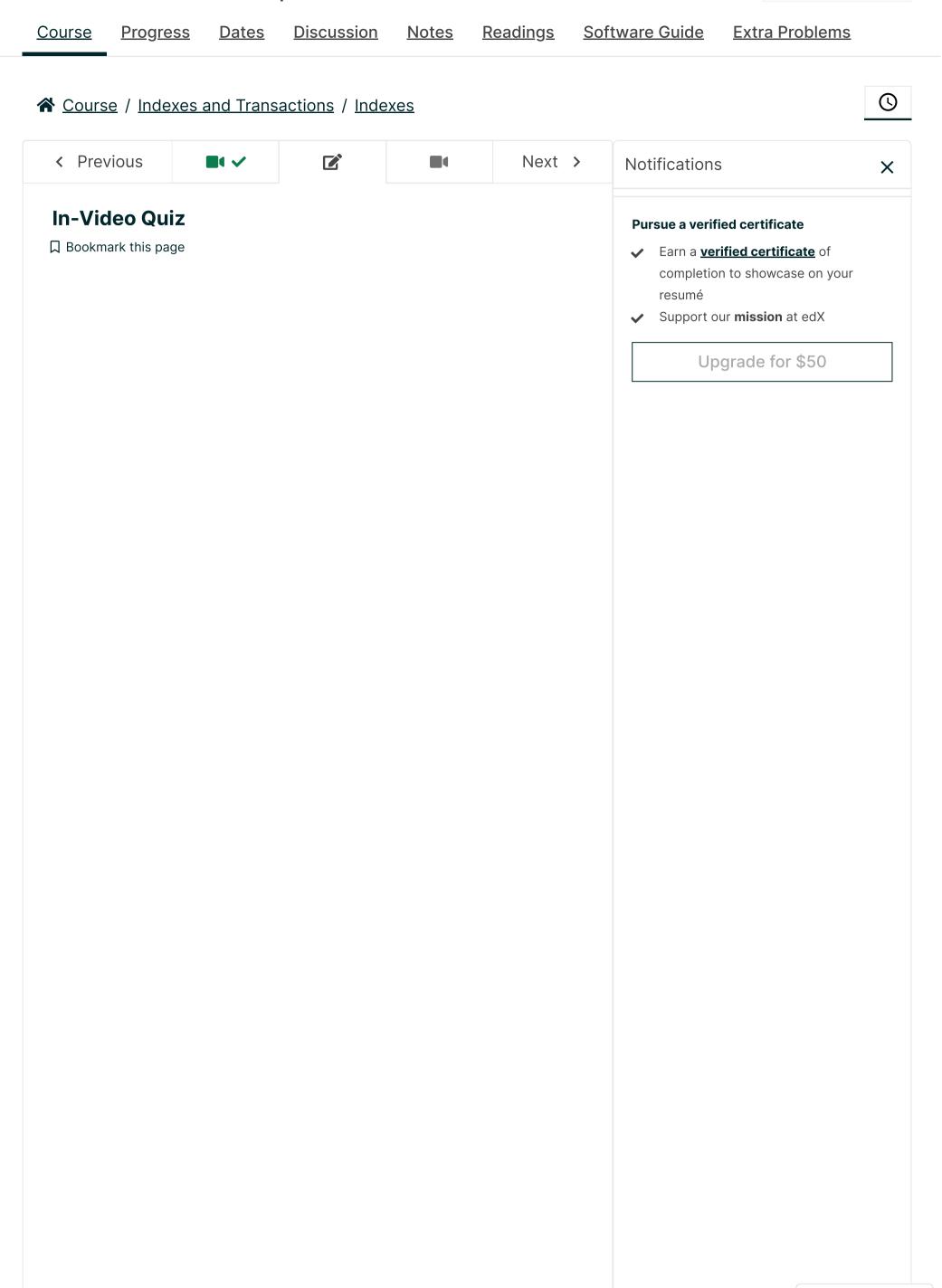


<u>Help</u>

sandipan_dey >

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1/1 point (ungraded)

Consider the following query:

```
Select * From Apply, College
Where Apply.cName = College.cName
And Apply.major = 'CS' and College.enrollment < 5000</pre>
```

Which of the following indexes could NOT be useful in speeding up query execution?

Tree-based index on Apply.cName
Hash-based index on Apply.major
Hash-based index on College.enrollment
Hash-based index on College (Name



Explanation

Hash-based indexes can only be used for equality conditions.

Submit

You have used 1 of 4 attempts

1 Answers are displayed within the problem

Q2

1/1 point (ungraded)
Consider the following query:

```
Select * From Student, Apply, College
Where Student.sID = Apply.sID and Apply.cName = College.cName
And Student.GPA > 1.5 And College.cName < 'Cornell'</pre>
```

Suppose we are allowed to create two indexes, and assume all indexes are tree-based. Which two indexes do you think would be most useful for speeding up query execution?

Student.sID, College.cName
Student.sID, Student.GPA
Apply.cName, College.cName
Apply.sID, Student.GPA

Explanation

An index on Student.sID can be used for its join condition and an index on College.cName can be used for both its join condition and 'cName < Cornell.' An index on Student.GPA is unlikely to be helpful since most students satisfy GPA > 1.5. Indexing both Apply.cName and College.cName helps with only one join condition.

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