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## In-Video Quiz

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### Q3

1/1 point (ungraded)

Consider relation StudentInfo(sID, name, dorm, major) with functional dependency  $sID \rightarrow name$  and multivalued dependency  $sID \twoheadrightarrow dorm$ . What schema would be produced by the 4NF decomposition algorithm?

☐ StudentInfo(sID, name, dorm, major)☐ S1(sID,name), S2(sID,dorm,major)☐ S1(sID,name,dorm), S2(sID,major)☒ S1(sID,name), S2(sID,dorm), S3(sID,major)

### Explanation

There is no key for the relation. Decomposing on the violating FD separates (sID,name) from (sID,dorm,major). Decomposing on the violating MVD separates (sID,dorm) from (sID,major). Now there are no violating FDs or nontrivial MVDs.

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