

**Simplified Learning's**  
**Civil Engineering Revision Sheet**  
**Topic – Failure of Joints [Bolt Failures]**  
**Subject - Design of Steel Structures**

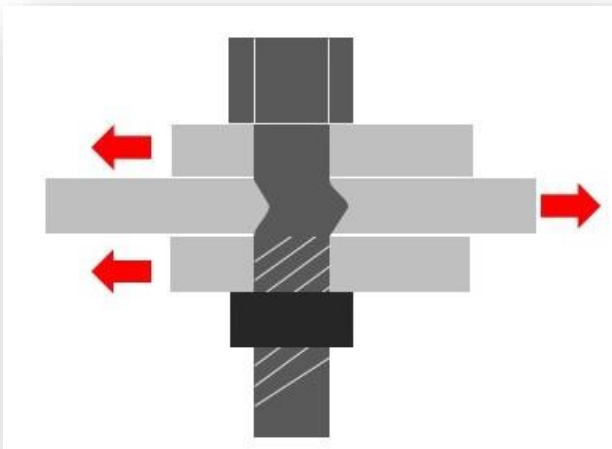
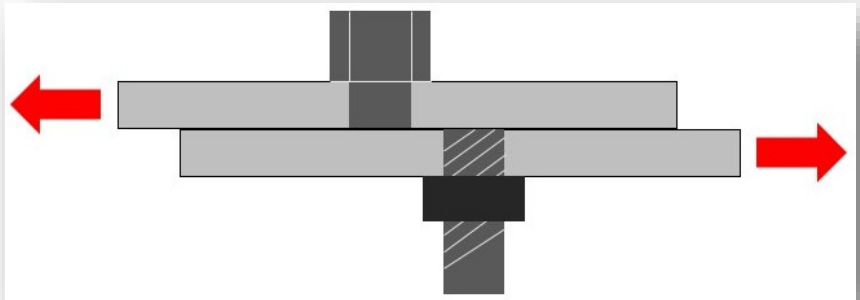
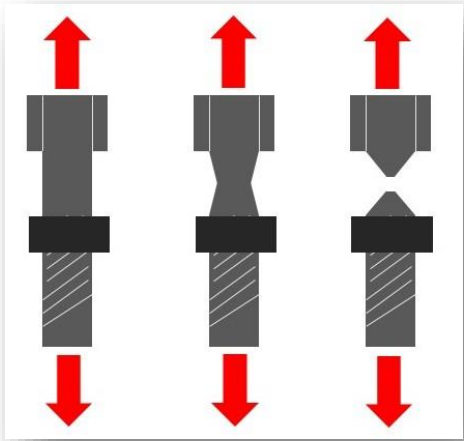
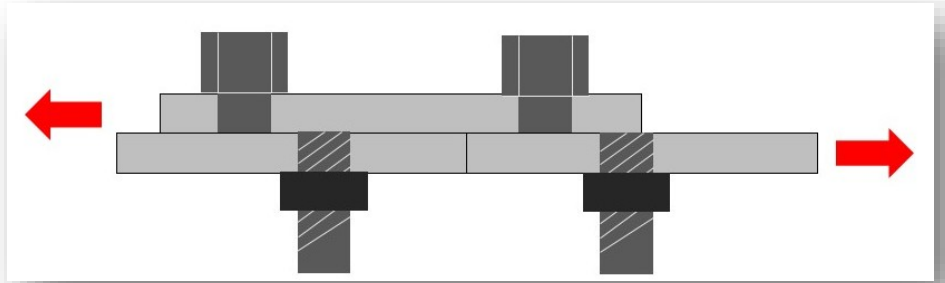
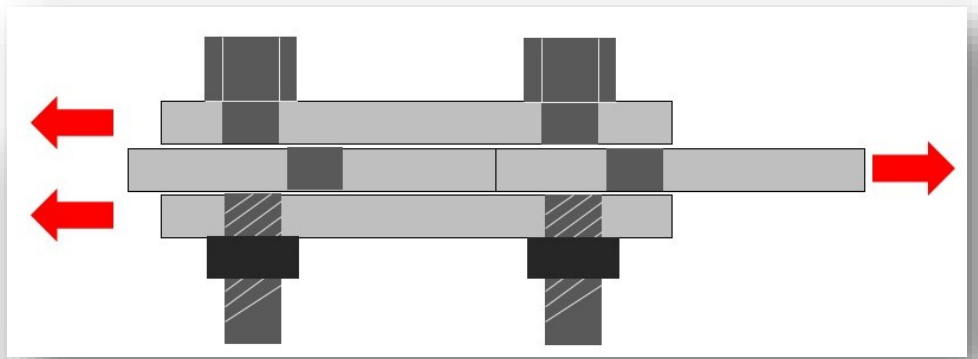
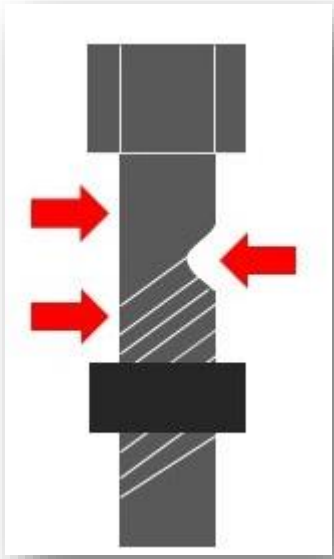
**What's in the Sheet:**

- 1. Diagrams showing joint failure modes due to bolts**
- 2. Try clicking the relevant image of failure as asked in the question**

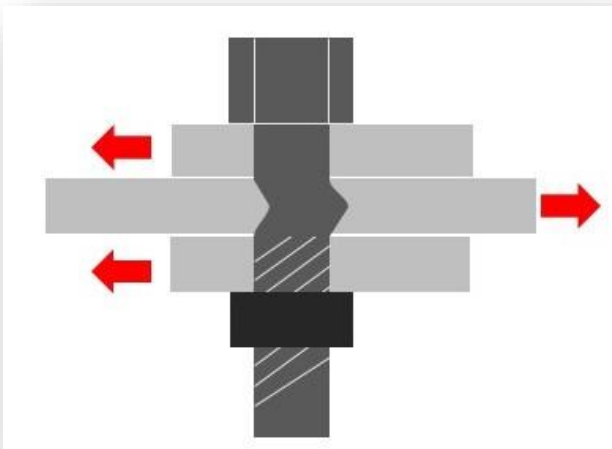
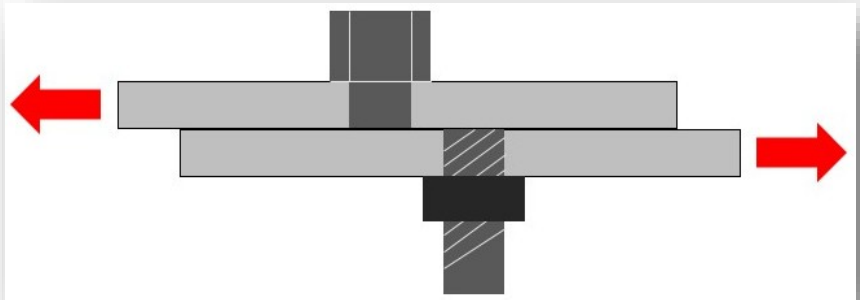
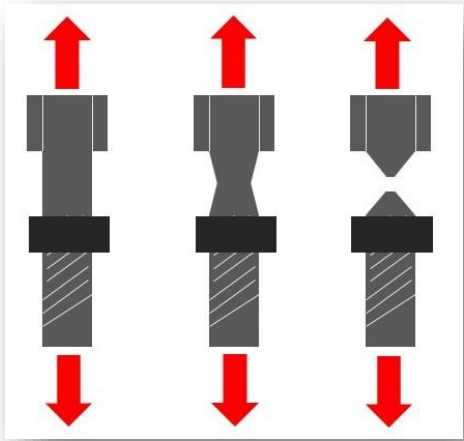
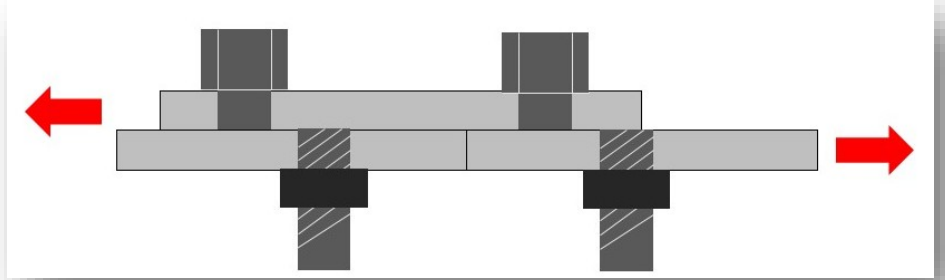
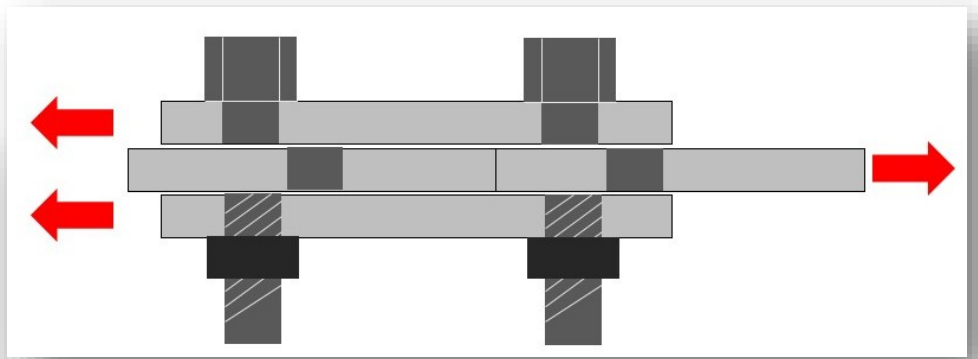
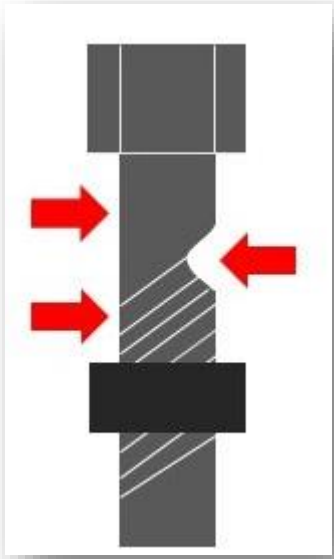
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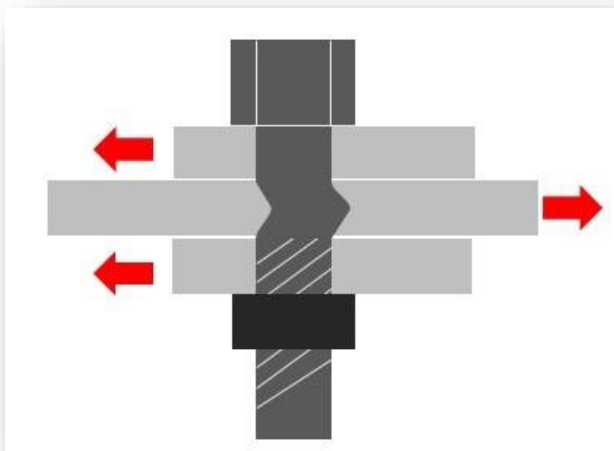
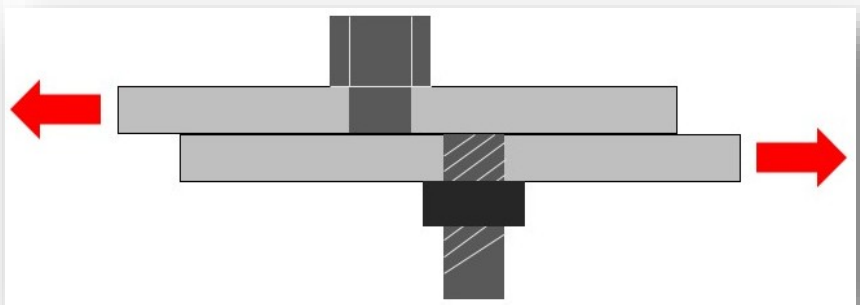
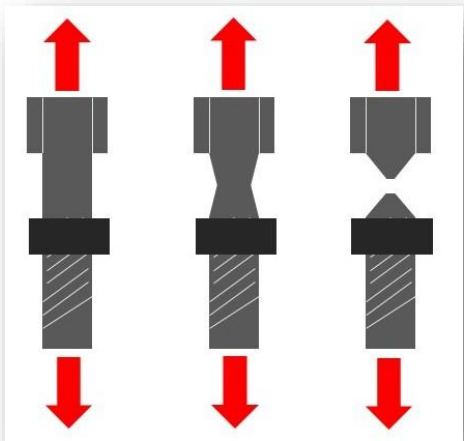
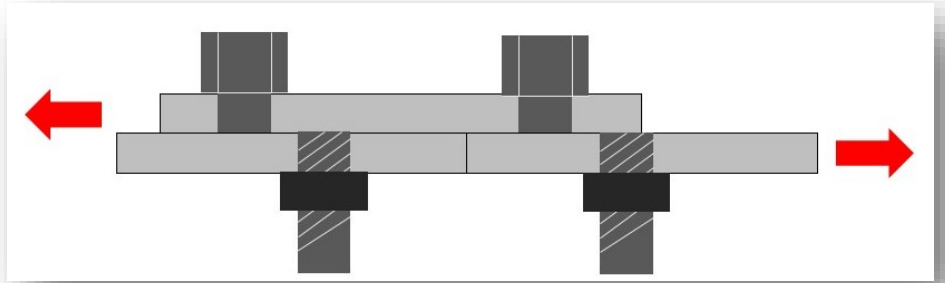
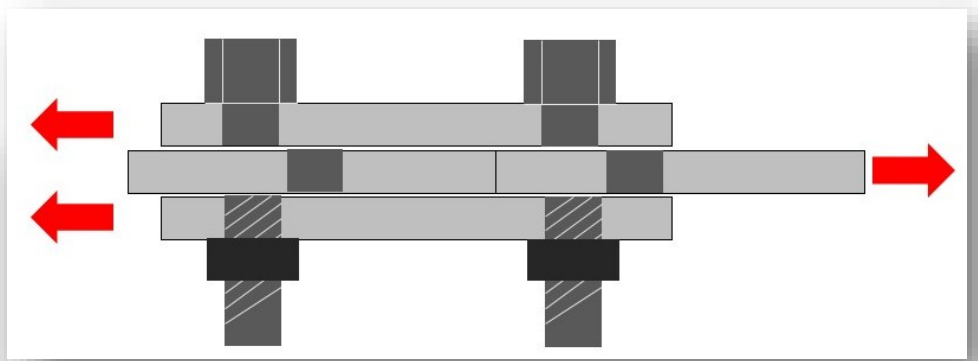
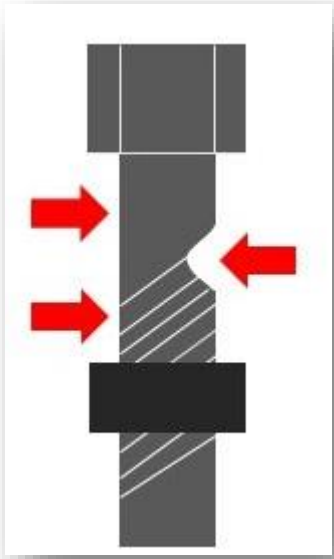




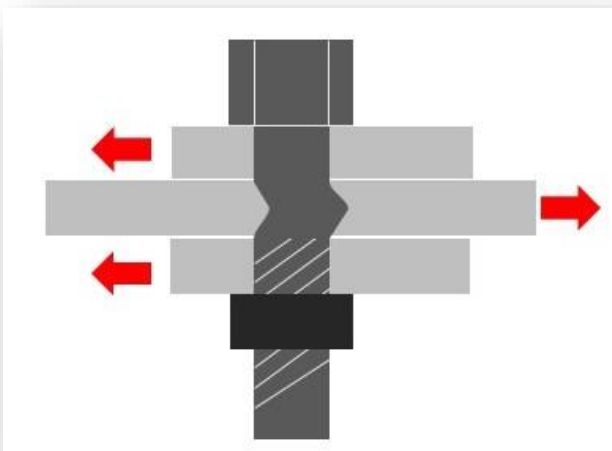
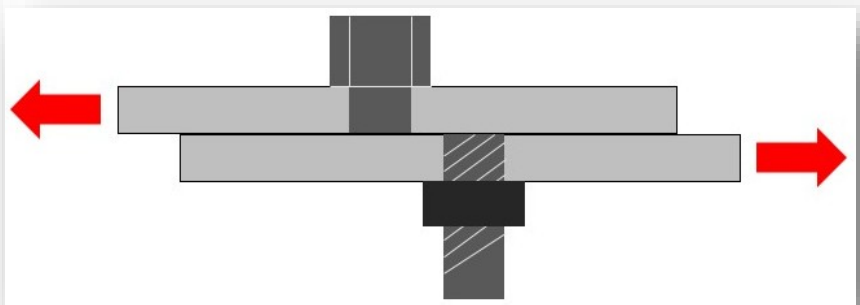
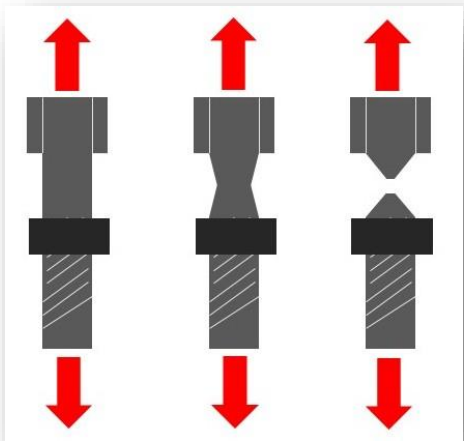
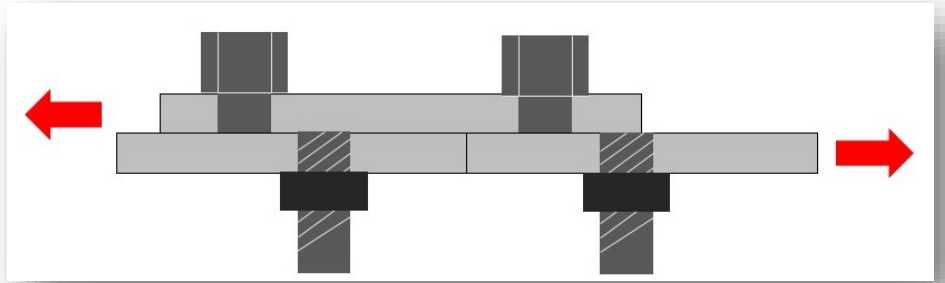
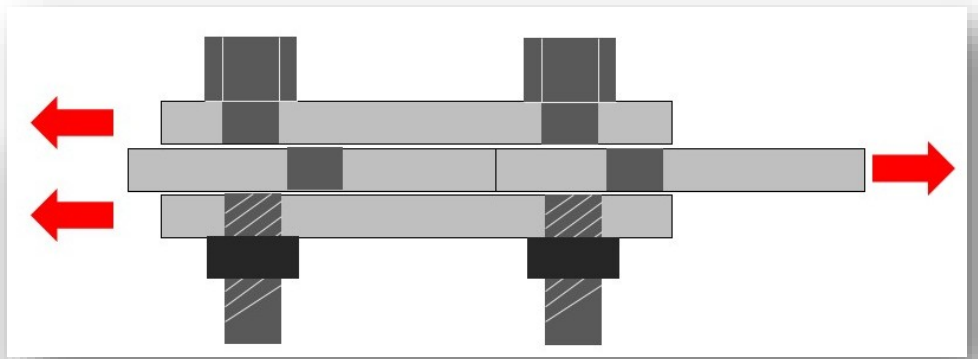
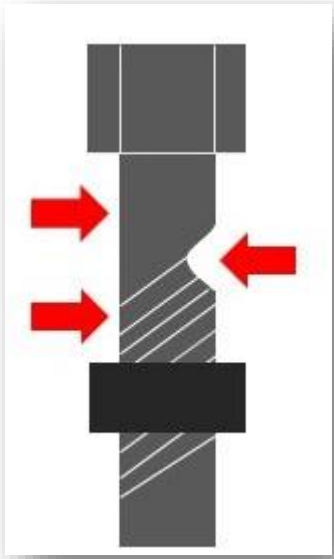
**Which diagram shows tensile failure of Bolt?**



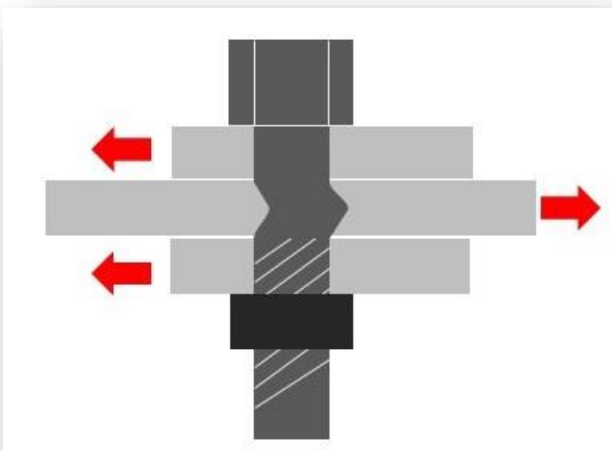
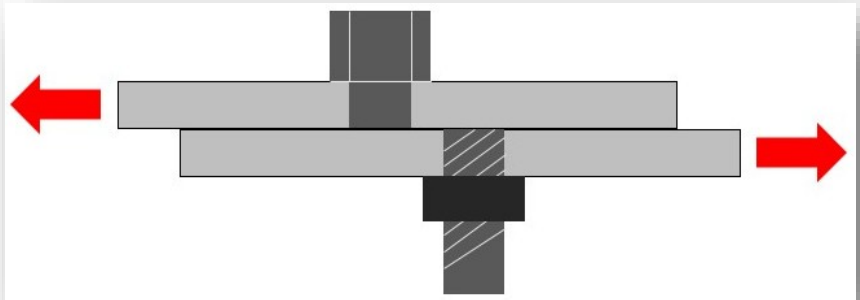
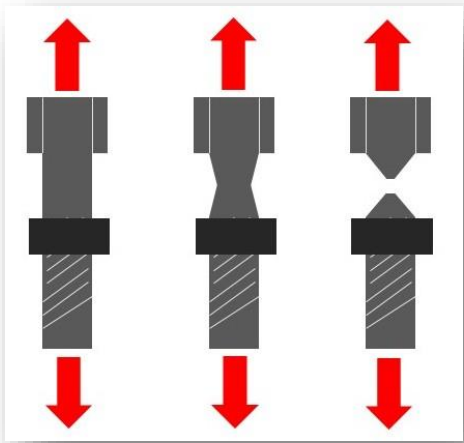
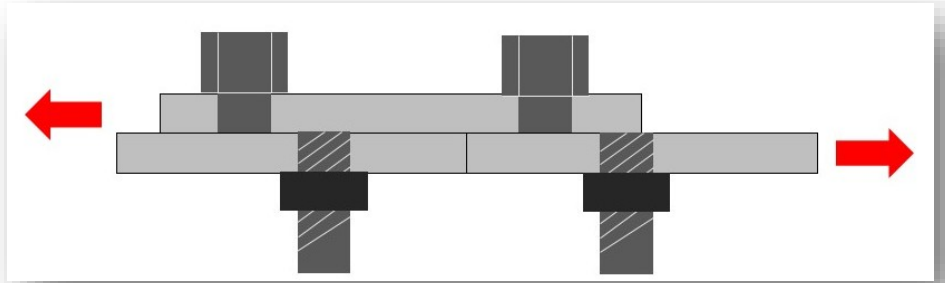
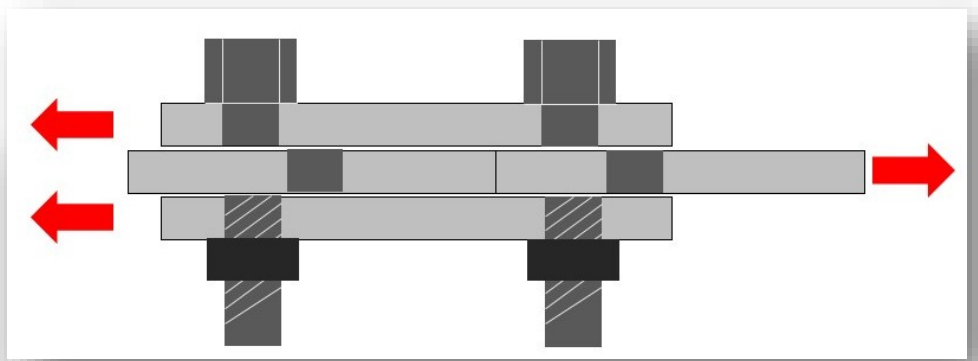
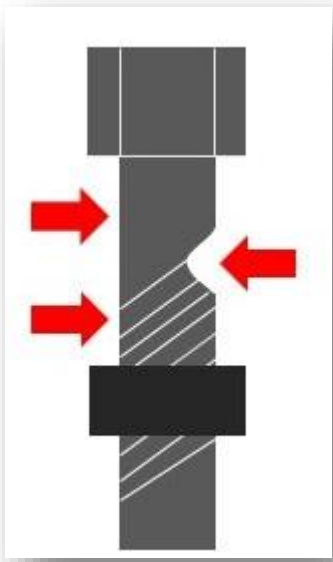
**Which diagram shows bending failure of Bolt?**



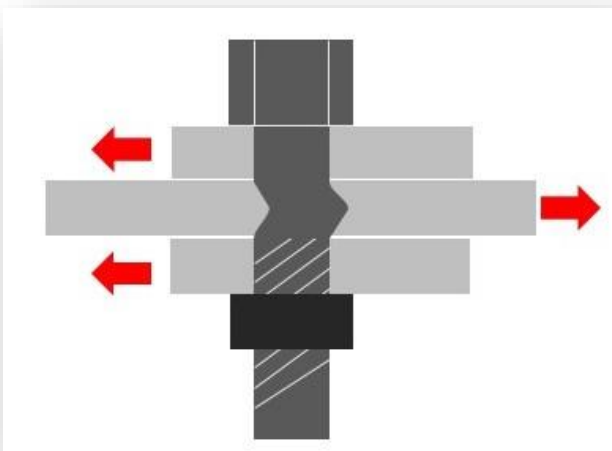
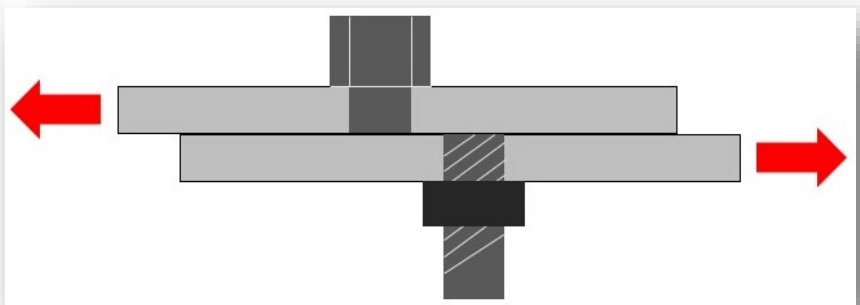
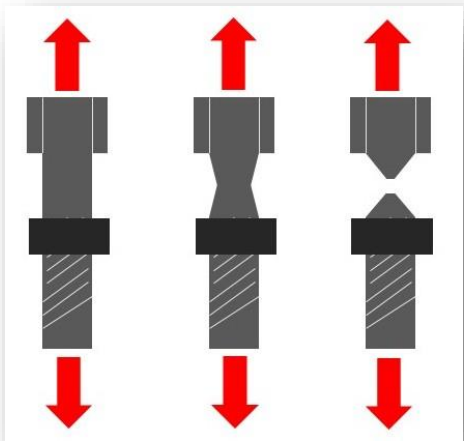
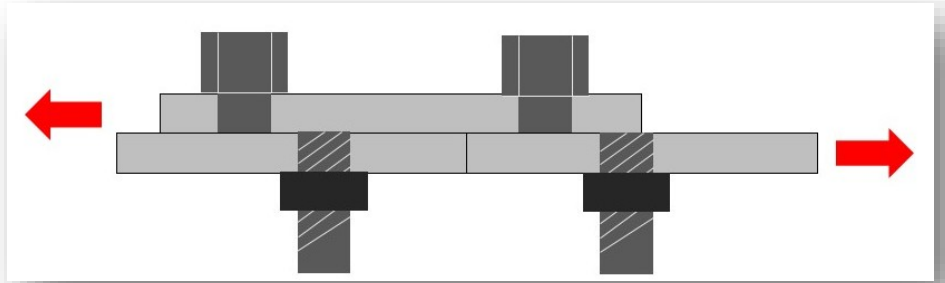
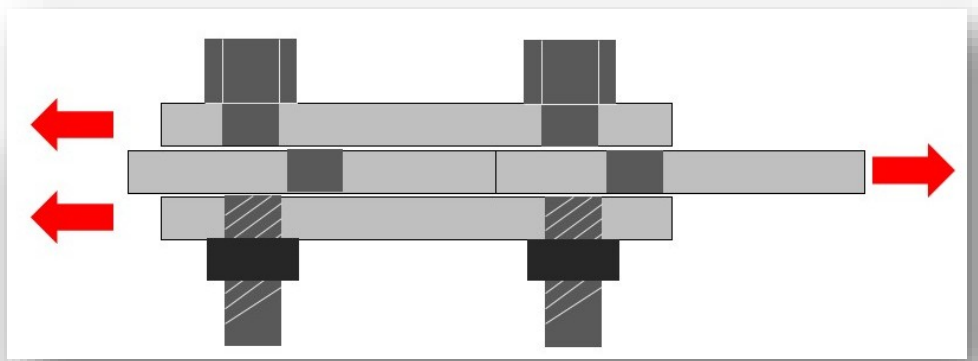
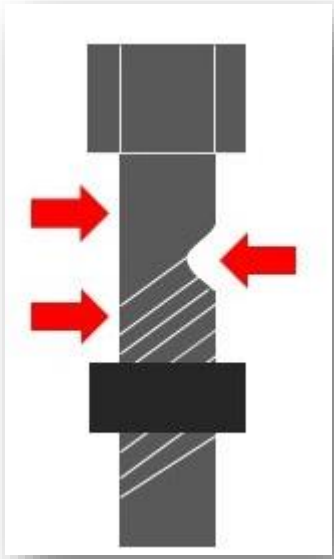
**Which diagram shows bearing failure of Bolt?**



**Which diagram shows double shear failure of Bolt?**



**Which diagram shows single plane shear failure of Bolt in Butt Joint?**



Which diagram shows shear failure of Bolt in Lap Joint?

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