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You are the DB of a large company, with databases that have millions of tuples. You need to improve the performance of your DB.

For the following queries, what indexes will speed up their execution? Assume $R(a, b, c)$, $S(a, d, e)$

1. $\Pi_{a,b}R$

2. $\Pi_{a,b}\sigma_{b=3}R$

3. $S \bowtie R$

4. $\sigma_{a>10}R$