1. **Algorithm:**

Maximum Flow can be used in:

If you have N employees and N jobs that need to be done, but not every employee can do every job, the max flow algorithm will tell you how to assign your N employees to jobs in such a way that every job gets done, provided that's possible. Graduation, from SRM 200, is a good example of a TopCoder problem that lends itself to a solution using max flow.

Sequence Comparison uses DP: calculates the minimum number of insertions, deletions, and edits required to transform sequence A into sequence B.

1. sad