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**Weak monotonicity:** if candidate w wins for the current votes, we then improve the position of w in some of the votes and leave everything else the same, then w should still win.

**Strong monotonicity:** if candidate w wins for the current votes, we then change the votes in such a way that for each vote, if a candidate c was ranked below w originally, c is still ranked below w in the new vote, then w should still win.

**Weak Pareto efficiency:** If all agents prefer a to b, the voting rule will never choose b to be the winner.

**Pareto efficiency:** if all votes rank a above b, then the voting rule should rank a above b.

**Independence of irrelevant alternatives: r**esult between a and b only depends on the agent's preferences between a and b.