

Problem #1: - up to 80 possibilities ✓
 - don't forget the smaller atoms C, N, ...

Problem #2:

	sol. at %	$\Delta\mu/GPa$	$\Delta r / \text{nm}$
- Ag	25%	+4.1	1
- Cu	3	+22.1	15
- Ga	8.5	-19.4	8
- Ge	3%	+3.4	-
- Li	14%	-22	9
- Mg	19%	-8.9	17
- Zn	68	+15.7	9
- Si	2.5	+13.5	-
- Mn	1	+53.3	16

- table ✓
- solubility ✓ \rightarrow e.g. Li, Mg, Zn

Problem 3: • $\Delta\mu$ max ✓
 • don't forget compliance disc. ✓
 • Li, Ga, Mn, Cu, Mg ✓

Problem 4: • Δr max. ✓
 • "interstitials" might be an option
 small atoms
 • from the metals: Mg, Mn, Cu

Problem 5: • good choices are Li, Mg top is all 3 effects
 • short explanation ✓

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