Which liquid has the highest boiling point:	
I. HI	
2. HF	
B. HBr	
4. HCl	
Correct Answer: 2.	
Comments to the instructor: The strongest intermolecular force for HF is the hyd bonding interaction. This is a stronger force than the dipole-dipole interactions b HI, HBr and HCl.	_
Which solid has the lowest melting point:	
I_2	
2. Cl ₂	
F_2	
\mathbf{Br}_{2}	
Correct Answer: 3.	
Comments to the instructor: When the same type of intermolecular force is used a comparison, the higher the molecular weight (or size of molecule), the stronger that interactions, hence, F_2 will have the lowest melting point.	
Which compound has the largest intermolecular forces:	
1. CH ₄	
$2. CO_2$	
3. CCl ₄	
4. Cl ₂ Correct Answer: 3.	

Comments to the instructor: All of these compounds are nonpolar. CCl_4 has the highest molecular weight, and size and the most polar bonds, so the interactions will be the strongest for this compound.