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17. Which one has the highest boiling point?

- (1) He            (2) Ne            (3) Kr            (4) Xe

**Answer:** The attractive force increases with the size of the atom as a result of the increase in polarizability and the decrease in ionization potential. As we move down group 18, the atomic radius, and with it the interatomic forces, increases, resulting in an increasing melting point, **boiling point**, enthalpy of vaporization, and solubility.

**Correct option is (4) Xe**