Exemplar problem 5

Atmospheric pressures recorded in different cities are as follows:

Cities	Shimla	Bangalore	Delhi	Mumbai
p in N/m ²	1.01×10 ⁵	1.2×10 ⁵	1.02×10 ⁵	1.21×10 ⁵

Consider the above data and mark the place at which liquid will boil first.

- (i) Shimla
- (ii) Bangalore
- (iii) Delhi
- (iv) Mumbai
 - (i) shimla

A liquid starts boiling when the pressure on its surface is equal to the atmopheric pressure. Thus liquid will boil first at **Shimla** because its atmospheric pressure is minimum.