**1) In the Binary Search algorithm, it is suggested to calculate the mid as**

**beg + (end - beg) / 2 instead of (beg + end) / 2. Why is it so?**

This is done to avoid overflow that may happen in *adding two very big integers* where the addition result may become greater than the max integer limit and yield weird results. So we use, beg + (end - beg)/ 2 instead of (beg + end) / 2.