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?

Answer:

Initially the value of beg =0 and end= (array length)-1 ,but as the program starts to progress the value of beg and end changes .Due these changes the mid value of array cannot be determined using mid=(beg+end) /2. So we are going with the formula beg+ (end-beg)/2 where each changes of beg and end values are taken into account and thereby mid value calculated correctly.