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CST 370

Final Project 1

The Algorithm

Use binary search to get index of first occurence of number.

if number is not found, return -1

else store index in firstOccur.

Use binary search to get index of last occurence of number

store index in lastOccur.

Return lastOccur - firstOccur + 1

Time complexity of two binary searches is 2 \* logn

Thus time complexity of count() is equivelent to O(logn)

Video Link:

<https://youtu.be/9IIMSbsRiuU>