	Date ://
	Page:
-	
	We can use binary sourch alwarily to
	The entire agree and list also then to season
	to do so we need to lind the midelement
_	we can use binary search algorithm to search The entire array and find the position To do so we need to find the midelement Compare it with our element if it is equal we have the index also
	have the index ples we would sixter
	Search the left or sight purt of array
A	There will be a Fotal n cases to be
14	considered as our key can be present
	in one of the n positions.
No to a	Some there can be only logn maximum.
338	Comp (1911 Stoms
	At each ith step that we have motch
	for each position i the probability will be (ibi-) -> no of indices which
	nod to will have i comparision.
	comparisions) total no of comparison
	possible.
1	10781402
3)	
	So = 1 2 ^m -1
	2.2 , 3.2^2 ,
	$S_n = \frac{1}{2^{m-1}} + \frac{\alpha \cdot 2}{2^{m-1}} + \frac{2^{m-1}}{2^{m-1}}$
	2 2 2 2 +
	$\sqrt{2Sn} = \frac{2^{m-1}}{2^{m-1}}$
	$\frac{2}{2} + \frac{2^2}{2 \cdot \log n}$
	$-S_{n} = \frac{1}{2^{m-1}} + \frac{1}{2^{m-1}} + \frac{1}{2^{m-1}}$
	2 ^m -1 2 ^m -1 10 10 10 10 10 10 10 10 10 10 10 10 10
	(-Sn = 1)
	2m-1

