	BINARY SEARCH ALGORITHM
4	Algorithm:
	tramela elebim brit (1
	2) Check:
	ib tærget > middle -> search right
	ælse slarch in løft.
	3) ib taget == middle -) we preund.
-1	mid = Stoort + and = 0+9 = 4.5 2(4)
	2 2
	The state of the s
#	The space in which we are searching is
	getting divided into trus spaces:
0	Time complexity
	Best Rase: O(1)
	Worst case: O (logn)
4.0	explanation: find mass rumber of comparis
	The state of the s
	0 1 V///// NCM/20
	White posterior to the stands of it
	1 1 1// N/2 = M/2'
	$\frac{1}{2} \qquad \frac{1}{2} \qquad \frac{1}{2}$
	5
	kth level 4 1 = M/2k

N=1 .. N=2k log(u)= log(2k) = k log2 R= logN = log2 M. log 2 Size of total m ob comparision un wordy cass terran # Better cercay to find mid: mid = (Stoot + end) mid = 5+ e-5 = 5+e here it will not exceed int value. Order agnostic Binary Search. if we don't know that the correcy is sorted in ascending descending order. So if Start > and -> desending order and > start -> ascending order.

