Binary 29 15 12 5 10 mid = low = 017 18 Low Et 19 mid LOW, =

Courage is the ladder on which all the other virtues mount. – Clare Booth Luce.

	Mordar
MARCH Tuesday	Victorially 6 11 70 77 Victorially 7 14 71 70 Thomason 17 18 15 77 77 Finder 17 18 18 15 77 77 Finder 17 18 18 18 18 18 18 18 18 18 18 18 18 18
65/301 18 is on the L.H.S of Index 5	Section 3 10 17 14 . 3. 37
« -: Mift high to (mid-1)	8
of the	
9 7	
$\frac{10}{10}$ dow = 4, high = 4, mid = $\frac{4+}{2}$	$\frac{4}{2} = 4$
•	
· Is the 4th index element = Key =	= 18 ?
12	
YES : FOUND	~
13	
•	
ONCE Low > high lie Love II To and high should be in R.H.S, but and high is in d. H.S, that means el the list)	hould be on Littes
15 of began chould be in R.H.S, but	if Low is in R.H.s
and wan is inditis that means el	ement is not in
the list	1 yels
16 the tist	
)
17 Algorithm for Binary learen,	cative ression.
. V	
18 (Ly hy Key)	
· Bin learch (L, h, key)	
19 \leq while $(l) \leq =h) \leq$ $mid = [(l+h)/2];$	
mid = [[2])	
20 A Tourid 7	
if (key == +[min])	
if (ky == A[mid]) * return mid;	
else if (Ky < A [mid]) h = mid -1; the mid then to be correct Benja	
How much easier it is to be critical than to be correct. – Benja	amin Disraeli
How much easier it is to be critical marrie by	

empirication makes the bore more terrible. – Frank Moore Colby

MARCH Thursday of Binary Search 10 week 10, week Length = 15 29 21 27 33 9 2 3 8 9 5 10 10 11 12 13 11 O mid (acomparison 12 Zeomparitons 37 13 14 13 11 15 Acompain 16 Comparison depends on binary rearch is 18 Best case: min 19 Ollogn) Worst case: max: 20 * It what if I want to make a search that is it ends up in the square box on the R.H.S You can't turn back the clock, But you can wind it up again. – Bonnie Prudden