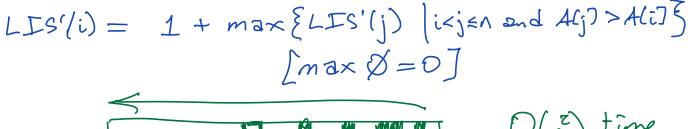
Monday is Labor Day

Dynamic Programming			
Text segmentations	: [word]	9	
	Where	does the First w	ord end?
	Splittableli	)= Is Alin) s	plittable ords?
		0/2	-) time
Longest Increasing Sul	oscquence	30415906535	
What do we need for DP full credit?	LISLij)=	_	st incr subseq all bigger than Al
DEnglish specification  Decurrence  Decurrence  Description	ć		O(nz)
4 Pseudo code + time			
Longest Increasing Subs	sequence. To	ske Z	
Longest Increasing Subsection of 314 (1) 596  Most is the first element	, DB 2 89 3	52384627	
Most is the First element	of LISP		

A(0) ← - ∞ return LIS(0) -1

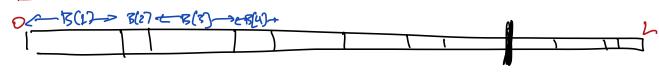
next.
What is second element in LIS )
whose first element is here?

## LIS(i) = length of longest increasing subseq of A[i.-n] starting with A[i]





## Woodcutter's Problem



Long plank with cut marks Sawnill will make one cut, cost = longth of plank What is the cheapest way to make all cuts?

Given array B(1...n] of board lengths

WoodCutlij) = min. cost to cut plank containing boards?

