CPE 360 Midlerm Dominic Tecchino 1. Using the heap allows for the assigning of application scare to spread out portions of memory as apposed to designated memory mext to each other. For example, in class we discussed the usage of 3 applications in contiguous space. If we have 2 applications that wer to at 40% of the memory space each, and I that runs at 30%, Off we open one application that runs at 30% and then one that runs at 40%, even if we close the 30% application we would not be able to pen the ofter 40% application. This is because we would have 30% of free space at the front of the memory and 30% at the back of the to form 6000 of available memory only 1. 30% sections. 2, a) 302+403+5=0(n2) 11m (4n3) > 11m (C·n2) False b)81.gn +4n =0(n) C≥5 /m (4n) ≤/m(C·n) when C.≥5 c)2"+403=0(03) lim (2n) = lim (Cin3) False d) 2n2+3n=0(n2) 1) $2n^2+3n = \Theta(n^2)$ True $C_1 = 1$ $C_2 = 3$ $\lim_{n \to \infty} (n^2) \leq \lim_{n \to \infty} (2n^2) \leq \lim_{n \to \infty} (3n^2)$

e) $2^n + n^2 + O(n) = O(n^2)$, $\lim_{n \to \infty} (2^n) \ge \lim_{n \to \infty} (C \cdot (n^2 - n))$ False 3. #include (jostream) Using remescace stoj int sum =0, num 0=0, num1=1; int get Nth Term Fibonacus (intn) cout 44 numo 24 1/11. else & cout is numles " ", num I=num 2; mmz = sum; get Nth TermFibonacci (n-1); return num2;

99			
The same of the sa			
9 9 9	(3)		
-	4	a+b#(c-d)/f	
		Next Symbol Read	Stack Contents Postfla Expression
			NUII
	e processor papers), person in decreasing and circumstance of		+ AD
-9 -9		<u>b</u>	
10000		*	*
9 9	t anningly decimal between the transfer for the		
	meneral annual period of the first f		+
	or was the entire own party and the entire or of the entire of the entir	C	abc
	amente y se francisco y financiario escribir.		The section of the se
9	enterior trapp for trapped Charles and white the		* +
9	was a second control of the second between the seco		in Mariana abcd
9	- O -	C .	hall at
	,		20CQ -*+
9	AND THE PERSON NAMED IN		
(A)	and the state of t	The second of th	popped immediately about +++
The second second second second second		Null	after abod-++f/
9	200 AV	ушуулгажирин болгооб, үзгийг нь поски хойирин огросой ошого голимонийског ишиндагай	

n.