	Mayank singh shushwaha Page No. Date:	
¥.	2017C550413.	
* * * * * * * * * * * * * * * * * * * *	To I your o- its buse (G combile (+)) = mk big (eval(+))	
	where ist is of type exptrue is stackenc (a,b) gives the shead of the stac list a after it estaps computing iis eval (t) gives the final and of exptrue t after which is an int.	1
	head of the star list a after it stops icompeting	
	iii) eval (+) gives the final and of experie + after	
	which is an int.	
	ev) mb_big (t) - converte unt to bigint	
- 12	0	_
	Taking induction on the height of the exptree(t)	
7-21	Base case :- ht(t) = 0 height of expline	jt.
	u(h(t) = 0) anen v = N(a).	1
_	compile t gives us a represented as bigint	
	det us give this name a' a' is a opcode lit	
_	and viole ,	
	stackmc ([])·(a') = mk_big a	
	this is by the defination of stacking.	
	i.e stackme [] (combile N(a))	
	= stackmc [[] [CONST (mk big a)]	
	= mk_big a	
-		4
	Now, unk_big (eval(N(a)))	-
-	Now, interbig (water (a))	17.7
		F-1
	hence, mk_ big (eval (Na)) = starbing [] (and 1/4/1/2))	A. C. S. L.
	true you base wase.	The same of
		S

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=	LH3:-	utachus [7 cambile (t) = stackmc [] cambile (Minus t, to)
		= stackenc [] (compile to @ compile to @ Minus) (postwoder of opcode lest)
- -	4 7	= stackmc [vi] (compile \$2 @ Minus[MINUS])
		= stackmc [12; 11] [MIMUS]
4.		= stackme [dub its r.] []
	gillen-	= kub 41 Hz = H1-H2
+	· 新山村	armed on total bust to it became
+	RHS :-	mk_big (evalt) = mk_big (Minus (t, t))
Ť_		= mk_big ((eval t)-(eval t2)) = mk_big(vi,-vi2)
Ť_		= mk_big ((eval t1)-(eval t2)) = mk_big(vi,-vi2) = tall v1,-v12 = LHS. where v1' = eval t1
7		hence RH3 = LH3. Vis = enal +2
+	1	S SEN PLES ENTRY SECOND AND DESCRIPTION OF THE SECOND SECO
Ì	£. 1	case 2:- Let the oberation be Abs WLOGI.
1_		t = Abs (ati) s.t ht(ti)=h-1
ļ <u>-</u> _	with	ht(t) = 1 + ht(t) = h
<u></u>	in to	
Ţ	. No	By induction hypothesis stackonc []. (nompile q) = mb_big (eval q) = vi,
Ī_		stacking [] (rampile a) = mb bea (and a) = 196
Ī	1. 1. 16	eval q = vi
- -		
	LMS	= stackne [] (compile (Abs (q)))
		= stackme + = (a(compile q)@[AB\$])
		= stacking [egi[r.][ABS]
ì		= strepme [cl]
		= stackmc [abs vi] []
-	1.4	= abs ry = 1 (day)

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Rns	: mk_big (evalt) =	mk big (eval (Abs q))
	<u> </u>	= mk_big(abs_int(Estip))
		= mk_big(abs_int(Evij)) = l = PLMS.
thenc	e proved.	
dr. In		
Now	we have taken	an assumption that
stack	emc 1/115 obcodelist	6 in [] but this tran
ibe	generalised becau	we we I are so giving on
tho	head as the	output of the stack
Hem	e use concluded	the broof that)) = mk_big(val(t)).
LU LU	tack 5 (nompile (+))) = mk_big(oval(t)).
		e .
1		