	Siddhartha Ghosh
1	1BM18cs108
	=> def fin_insut(self. K)
_	ulile K. parent, war ==1:
L	if K. parent = = K. parent parent . vijet
	U: K. parent parent life
-	if u.color==1;
	4, wb~=0
	K-parent. colar = 0
	K. parent parent . color =1
	K=K-parent, parent
	else
_	if K= K. parent, left
	k = k.parent
	suf. right rotate (K)
	K-parent lolor = 0
_	K. parent, parent, color=1
	suf. lift_rotate (K. parent. parent)
	else:
_	i = K. parent. parent. right
	if u-color = 1;
	U. Lolox = 0
	K-parent. volar = 0
	K. parint. parent. colar = 1
	K.= K. parent parent
	else
	if K= K. parent. right
200	K=K.parent
100	Siff lyt In notali (K)
- 120 C	
-	

K. parent. color = 0 K. parent, parent. color=1 suf ngut - notate (K. parent, par y (K = = suf . ~oot): break Self root color = 6