









template selass i				
BstNode <type>*</type>	BST <type>::</type>	IterSearch(co	onst Element<7	[vpe>& x)
// Search the bin	ary search tree	for an elemen	nt with key x	
{ PatNada <tura></tura>	*found *t	a a t		
while (1) {	"Iound, "t – r	001;		
if $(t = 0) \{ f \}$	ound = 0; brea	k; } // the key	y being searche	ed is not existent
else {				
if (x.key	== t→data_kev	(1) found = f	• hroat · l	
else if (v	$kev > t \rightarrow data$	(\mathbf{kev}) $\mathbf{t} = \mathbf{t} \rightarrow \mathbf{R}$	l, bicak, ; RightChild•	Finding
else if (x else t = t	.key > t→data.l →LeftChild;	key) $t = t \rightarrow R$	kightChild;	Finding Element with th
else if (x else t = t }	.key > t→data.l →LeftChild;	key) $t = t \rightarrow R$; break, ; RightChild;	Finding Element with th key of 16
else if (x else t = t } }	.key > t→data.] →LeftChild;	key $t = t \rightarrow R$, bleak, y RightChild;	Finding Element with th key of 16
else if (x else t = t } return (found);	.key > t→data.] →LeftChild;	$(\mathbf{y}; \mathbf{O}(\mathbf{h}), \mathbf{w})$	h is the heiaht	Finding Element with th key of 16
else if (x else t = t } return (found); }	.key > t→data.l →LeftChild; Complexit	$(t) = t \rightarrow R$ (t) (t)	h is the height	Finding Element with th key of 16
else if (x else t = t } return (found); } iteration	.key > t→data.l →LeftChild; Complexit	y: O(h), where	h is the height	Finding Element with the key of 16
else if (x else t = t } return (found); } iteration t→data.key	.key > t→data.l →LeftChild; 1 root (20)	y: O(h), where 2 15	h is the height	Finding Element with the key of 16 20 15 22 15 22 15 22 15 22



















































class Se	s {				
public:	τ. C				
// S	et operations follow				
private	•				
int	*parent;				
int	n; // number of set elemen	ts			
};					
Sets:Set	s(int sz = HeapSize)				
{					
n =	<pre>sz; parent = new int[sz];</pre>				
for	(= -1;			
}					
void Se	s::SimpleUnion(int i, int j)				
// replac	e the disjoint sets with roots	i and j, i	!= j with their i	inion	
{					
pa	ent[1] = j;				
} :==					
int set	::Simpler ind(int i)				
ί.		r•1	<i>.</i>		











































