H) For any node, the successor is the left most element of the right subtree. From the problem, we know the right subtree exists. Thus the successor is the left most child in the right subtree. However, the left most child cannot have a loft child (if node x has one left child, then node x is no more the left most)

Similarly, the predecessor is the right most child in the left bubtree. The right most child cannot have a right child.

5) Two common self-balancing binary search trees are;
AUL trees O(logn) for insertion
Red-Black trees O(logn) for insertion

The red-black tree colors each node redor black. Then steps through 4 different cases to change color and thus position of the inserted node so the tree is balanced.

With Aut trees, you insert similar to binary search tree but then retrace up the tree and notate nodes. to balance the tree.

6) Stage 2, where 1=4 for Roulette

5454]			2.	3	H .	ry	w u
(0-2)	0			ţ		0	0
[3-5]	0	8			_	E	l
(6-8)	0	Ŕ	14	-	-	14	2
[9-11]	0	E	14	18	<i>/</i> -	19	3
CIZ	10	8	14	18	70	70	4

$$5_{3}$$
 $\frac{1}{3}$ $\frac{1}{3$

Stage 3 juliere i=2 for Poker

6) Stage 4 := 1 for Blackjack

8 5/44 0 1 2 3 4 1 4 4/5 1 2

We want 2 black jack tables:

25-9 117, which I table of pokeris best,

25-8-5 12, which I table of crops is best,

25-8-5-6: b, which 2 tables of poulette is best

Der sequence is...
2 roulette, I craps, I poher; and 2 blackjack tables.