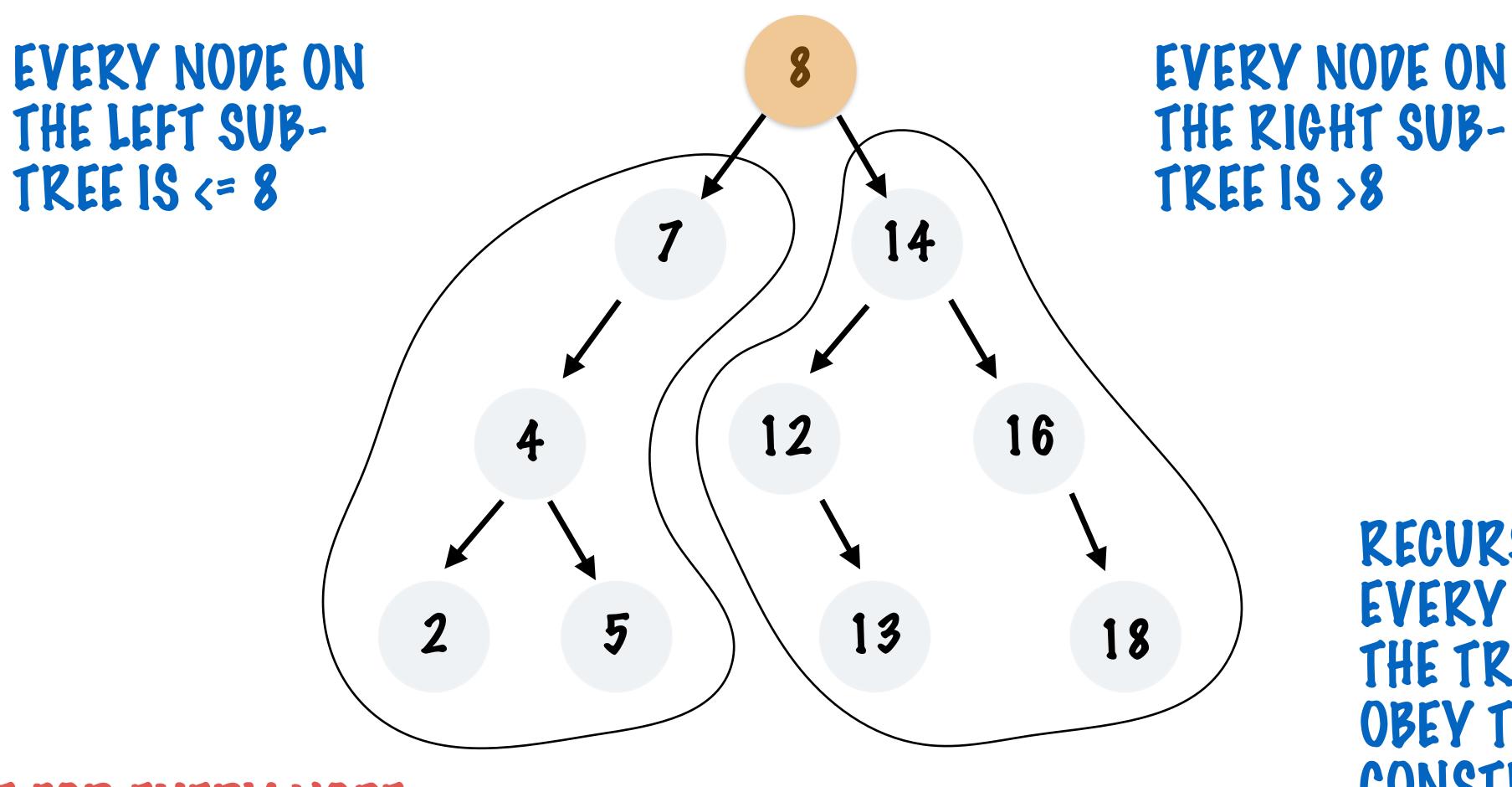
THIS IS ALSO CALLED AN ORDERED BINARY TREE AND IT'S A TREE WITH SOME SPECIFIC CHARACTERISTICS

FOR EVERY NODE IN THE TREE:

EACH NODE IN THE LEFT SUB-TREE OF THAT NODE HAS A VALUE LESS THAN OR EQUAL TO THE VALUE OF THE NODE

EACH NODE IN THE RIGHT SUB-TREE OF THAT NODE HAS A VALUE GREATER THAN THE VALUE OF THE NODE

CONSIDER THE NODE 8



RECURSIVELY
EVERY NODE IN
THE TREE SHOULD
OBEY THIS SAME
CONSTRAINT

BINARY SEARCH TREES ARE TYPICALLY USED FOR FAST INSERTION AND FAST LOOKUP

IN A TREE WHEN A NEW NODE IS ADDED THERE IS EXACTLY ONE PLACE THAT IT CAN BE

WHILE SEARCHING FOR A NODE IN THE TREE THERE IS ONLY ONE PLACE WHERE THAT NODE CAN BE FOUND

THE STRUCTURE OF A TREE PEPENDS ON THE ORDER IN WHICH THE NODES ARE ADDED WE CAN SIMPLY FOLLOW THE RIGHT OR LEFT SUB-TREES BASED ON THE VALUE WE WANT TO FIND

INSERTION

LOOKUP