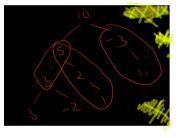


(an use find more optimal soln)) what if we keep an array fall possible paths excluding tanget sur because in the previous approach we are visiting them agan & again



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2. The map stores < prefix sum, frequency> pairs before getting to the current node. We can imagine a path from the root to the current node. The sum from any node in the middle of He path to the current node – the difference between the sum from the root to the current node and the prefix sum of the node in the middle

to know how many differences are equal to the target value.

to circum now many antiference are regalar to the registery data.

4. THIS comes the map. The maps stores the frequency of all possible put in the path to the current node if the difference between the current map. The maps stores in the model of the path, such that first put in the model could be in the model of the path, such that first put in the country country in the model possible put in the model. As the path such that the path such that the many country is the model possible to the table possible to make the path such that the path such that the path such that the many country is the model possible to make path the model possible to the path such that the path such that the many country is the model possible to the path such that the many country is the model possible to make path that the model possible to make the model to the path such that the model path such that the model possible to make the model path that the model path such that the model

To get the total number of path count, we add up the number of valid paths ended by EACH node in the tree.

Each recursion returns the total count of valid paths in the subtree rooted at the current node. And this sum can be divided into three parts:

 the total number of valid paths in the subtree rooted at the current node's left child

the total number of valid paths in the subtree rooted at the current node's right child the number of valid paths ended by the current node

The interesting part of this solution is that the prefix is counted from the top(root) to the bottom(leaves), and the result of total count is calculated from the bottom to the top :D

blic int pathSumRec(TreeNode root, int currentSum,HashMap <integer,integer> m</integer,integer>
return 0;
currentSum += root.data;
int numberOfPaths = map.getOrDefault(currentSum - targetSum,0);
<pre>map.put(currentSum,map.getOrDefault(currentSum,0)+1);</pre>
int result = pathSumRec(root.left,currentSum,map,targetSum)+pathSumRec(root
<pre>map.put(currentSum,map.get(currentSum)-1);</pre>
return result+numberOfPaths;