

Homework }

Saturday, March 17, 2018

11:21 AM

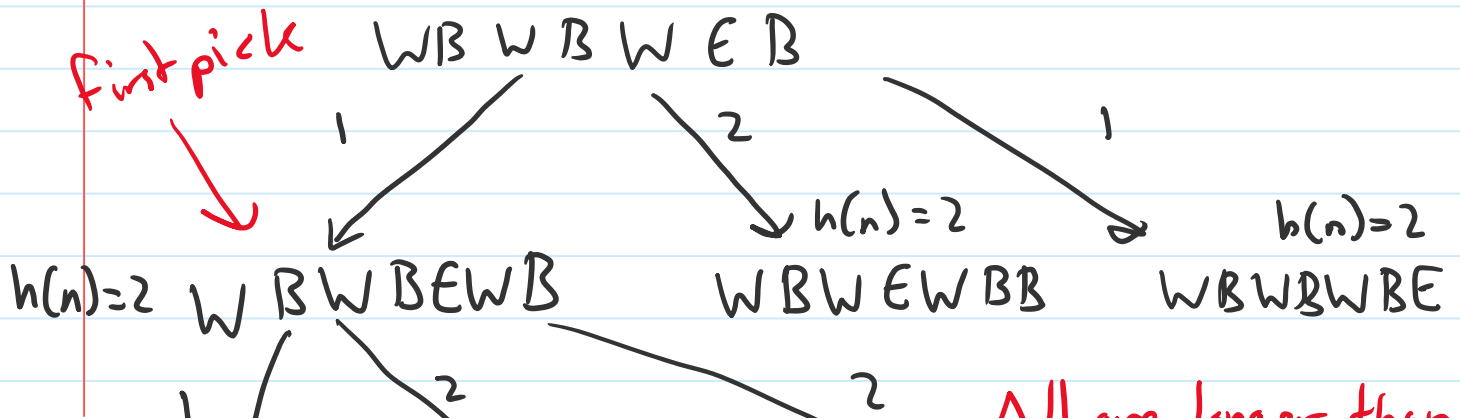
$h(n) \rightarrow$ number of white tiles misplaced;
defined as any white tile to the
right of any black tile

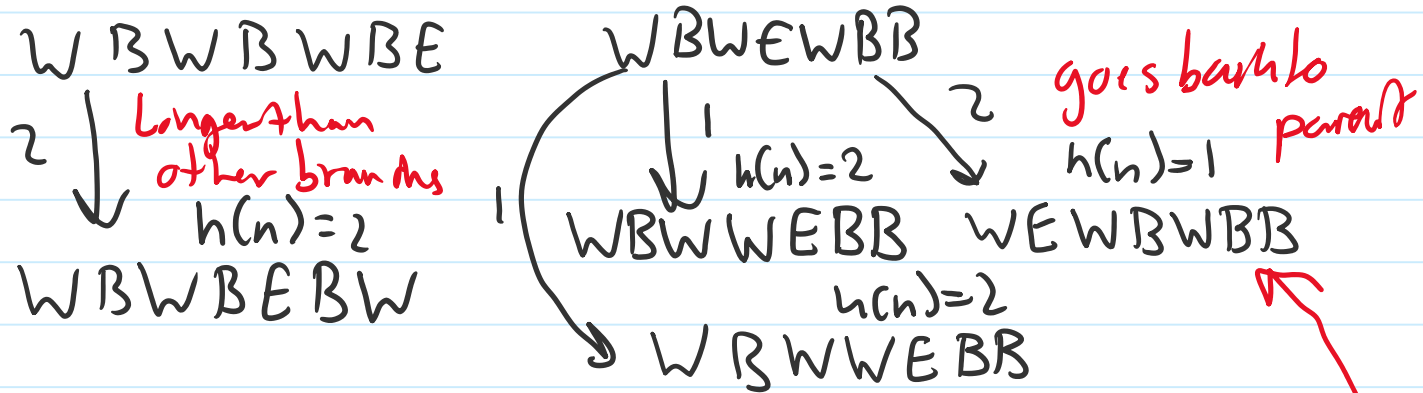
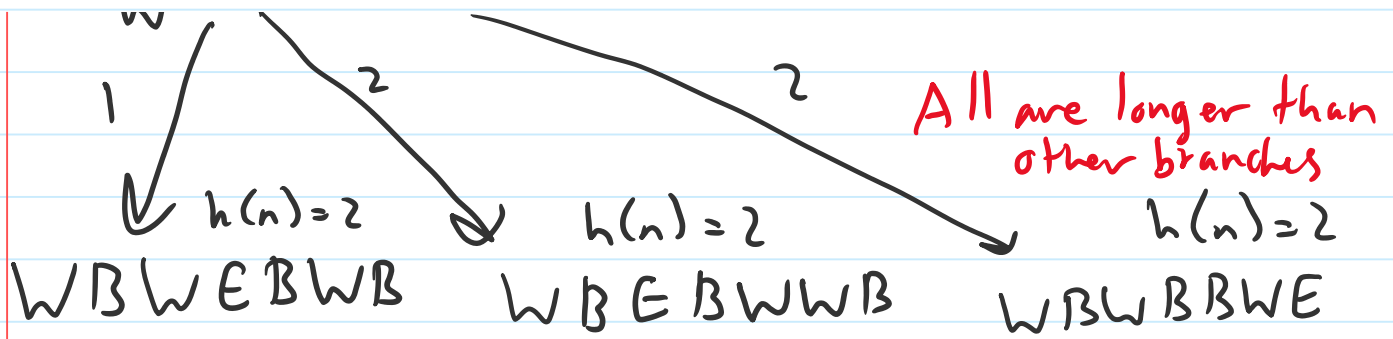
This will never overestimate \rightarrow if a tile is in the wrong spot, it requires *at minimum* a cost of one to be moved. Therefore, the minimum cost of solution will be equal to white tiles that need to be moved to the left, as every one of those tiles will need to move.

Take an edge case, though, and say moving one black tile can resolve two white tiles:

WBWW EBB

To move the black tile two spaces, you can hop over the white tiles. HOWEVER, this move will have a cost of two, which is equal to $h(n)$.





It will keep expanding nodes, but eventually end up here

