Day - 1612 Trees - 10 Burning Iree! (1) (18) (22) (21) We will given a target and from that す target, we have to burn the tree. Burning a hade is like they will burn =) their adjacent nodes. This will take 1s. 7 Now, we will go do this again & again until we burn all the nodes. And in the end, we have to return 4 total time taken to burn the tree Ex: Suppose target → 12 Sor 12 will burn their adjacent 7, 17,18 nodes & will take 1 s. we will do sames until all the nodes burn, R VO.

Date ____ we can easily calculate time for down nodes from any nodes. The answer is the height. 1 Now the question is that how to find the above adjacent nodes.
If in any way, we find the above node then time taken will be 1s + height from the above hode. So, we will create an array to stone the => path from hade to target. After that, we will create two more array for storing height of left side bright sido. So how how will we select the height. For that we will see the previous node. 4 from the array.
If it is from left side select right subtree height atternise left. path 7 12 Another approach: =) we will use recursion and everytime when any above node come we will return 1+ height to the above

we will ask two questions -If the burn is coming to that node = thon return the time. If the burn is not coming then return the height. we will ask same question to left & right コ to every hode. the So, how will be know that the no, is coming is burn on height. For that we will denote burn by -ve ho. Code int target Burn (Nodo * root, int & timen) { if(!noct) Hree return D; if (noct → blata == target) return -1; int left = Burn (noot -) left . timer , tanget); int right = Burn (noct - right, timer, target); if (left < 0) { times = max(times, abs(left) + right); noturn left -1; elsef if (right < ()){

timer = max (timer, left + abs (right));

3 return right - 1; * IV A



