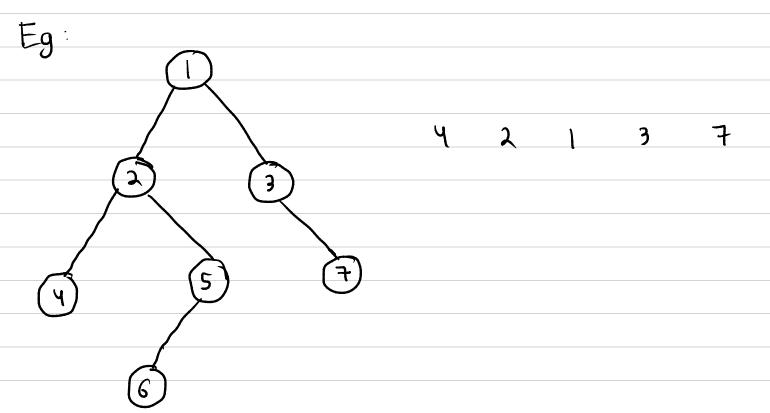
TOP VIEW OF A BINARY TREE

Problem asks us to display or output the top view of a binary tree.

Same as viewing from top and overlapped ing elements are hidden.



Solution is very similar to Vertical Order Traversal but here we just need to display output first element of each vertical.

Pseudocode:
top View Binary Tree (Node * root) {
 vector cint > ans;
 queue < pair < Node *, int >> q;

```
map < int, int > mpp;
if (root = = NULL)
    ncturn ans
q. rush (froot, 0);
while (|q.empty());
auto it = q.front();
     q. rop ();
Node * n
     int line = it second
     if (mpp. find (line) = = mpp. end (
          mpp[line] = n - val;
      if (n \rightarrow left) = NULL)
         q rush (In-) left, line-1});
      if (n -) right, 1 = NULL)
         q push (In-) right, line + 1})
 for (auto it: mpn) d
ans. push_back (it.second);
```