1: 1 2 4 3

1: 4

```
vector<int> V[maxn];

bool vis[maxn]
int ans[maxn];

void dfs(int x, int start){
        vis[x]= true;
        int sz= V[x].size();
                      i<sz;i++){
```

ans[i]: 第i个点的答案

V[x]

```
[- - - - - -]        → for (int i=0 ;
                              if( vis[v[x][i]]==false) {
                                  dfs(v[x][i]);
                                  ans[start]=max(ans[start],v[x][i]);
                              }
                      }
             }
```

O(n)

main

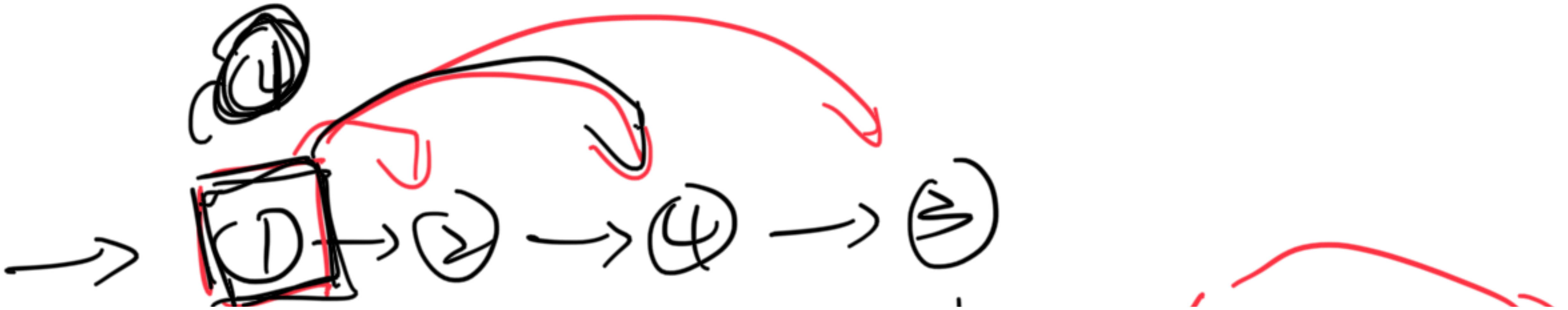
dfs(1,1) → O(n)

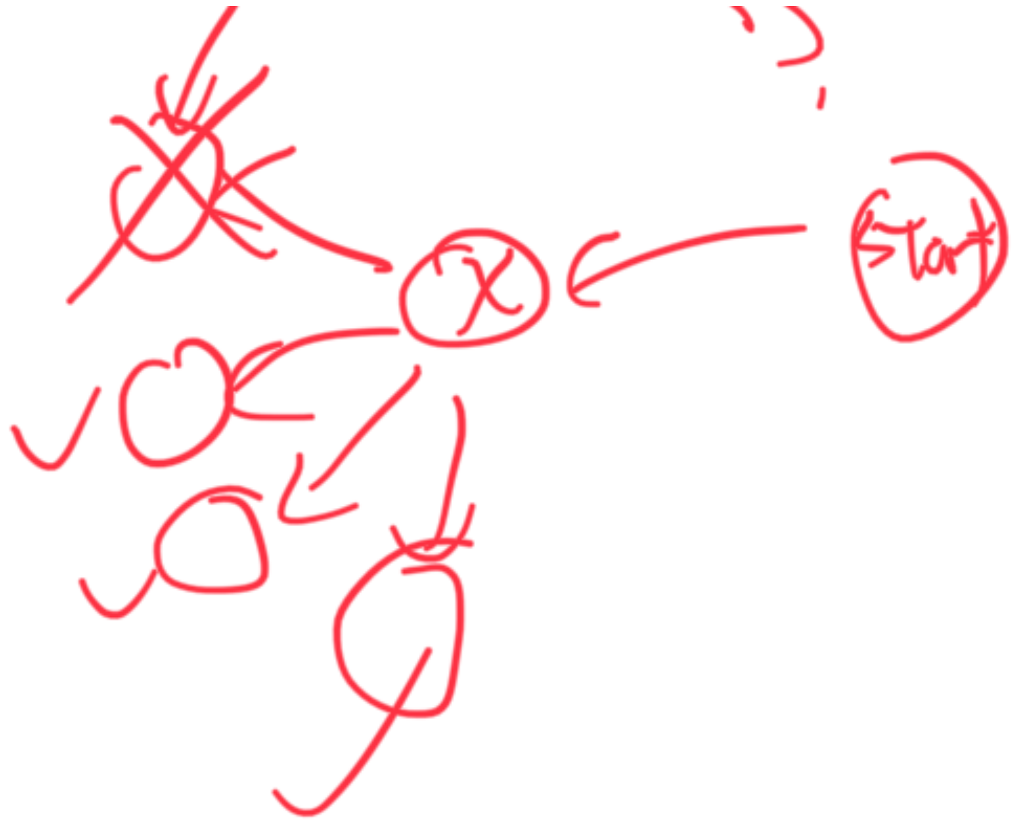
dfs(2,2)

⋮

dfs(n,n)

$O(n^2)$ $\boxed{10^5}$

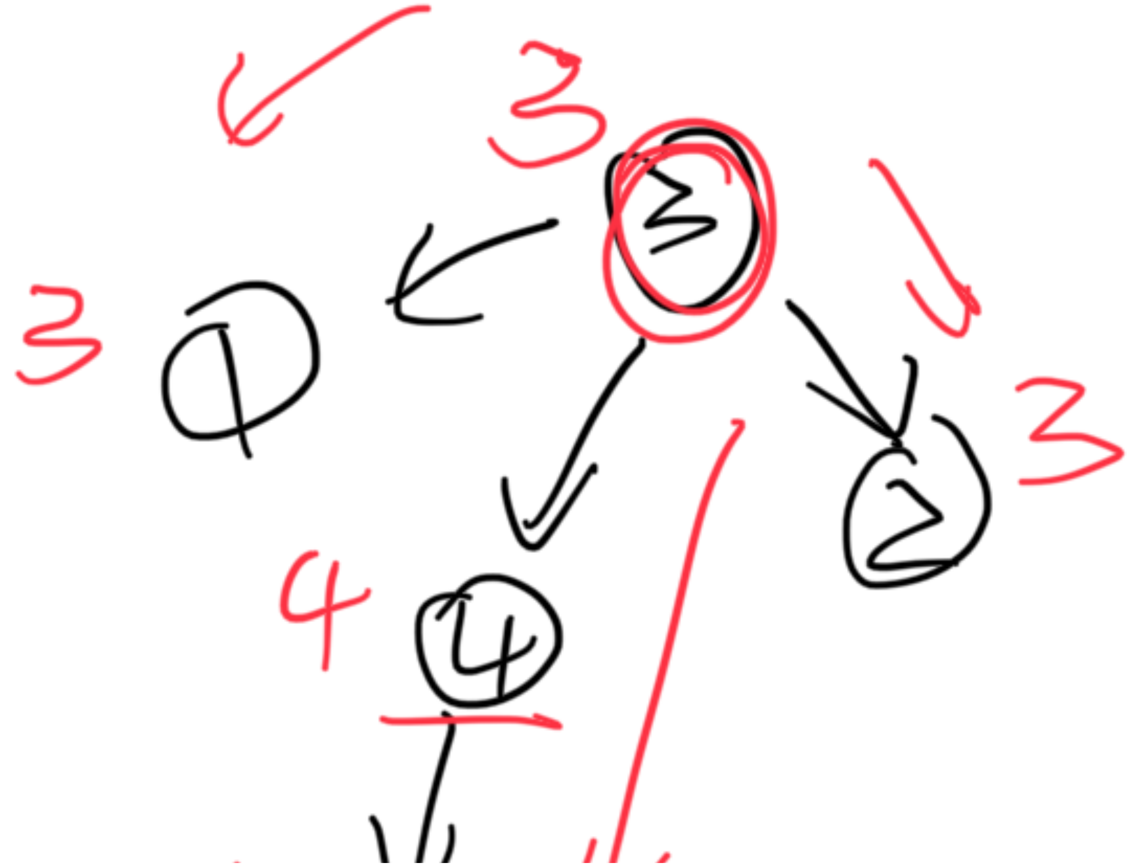


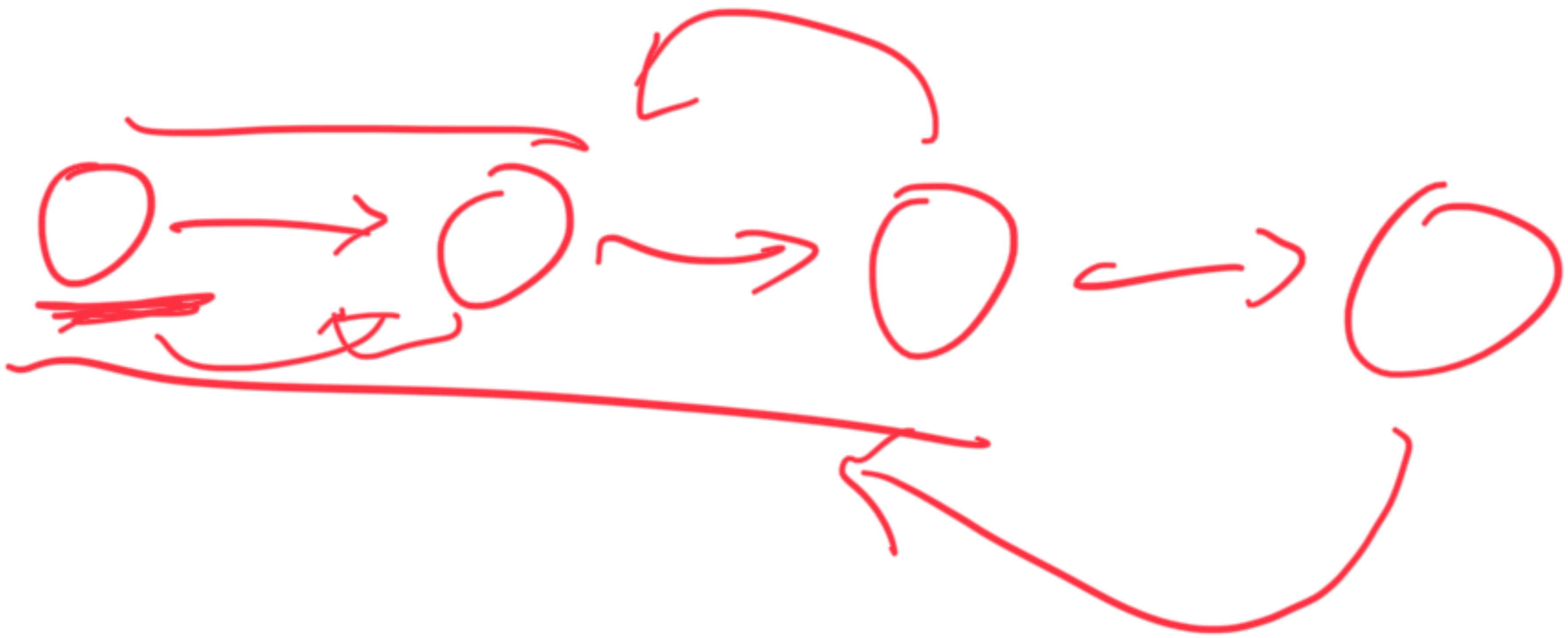


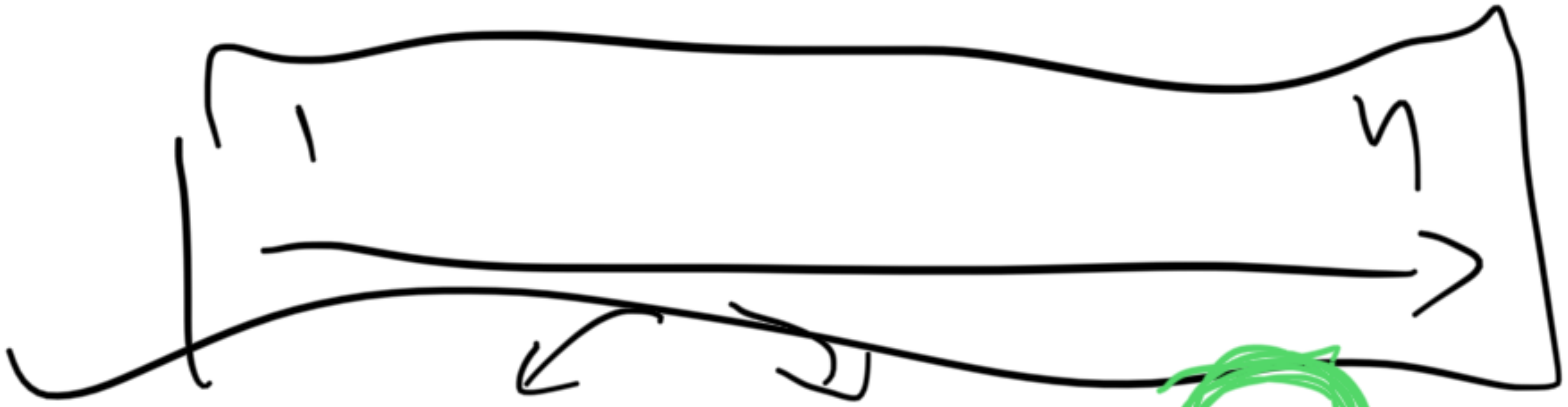
```
void dfs(int x, int start)
        vis[x]=true;
        int sz= v[x].size()
        for(int i=0; i<sz; i++){
            if( vis[v[x][i]]==true) continue;
            dfs(v[x][i], start);

            ans[v[x][i]]= max(start, v[x][i]);
```

if(v[x][i]>start)
continue







	1	2	3	4	5	6	7
		1	2	1	24	24	356
	5	2	3	6	1	8	4
t →	5	7	10	11	12	19	23

t[7]

$\geq \max(\overset{10}{t[3]}, \overset{12}{t[5]}, \overset{19}{t[6]})$

$+4$

$t[2] \geq t[1] + 2$

$t[4] \geq t[1] + 6$

$t[6] \geq \max(7, 11) + 8$

$t[3] \geq t[2] + 3$

$t[5] \geq \max(t[2], t[4]) + 1$