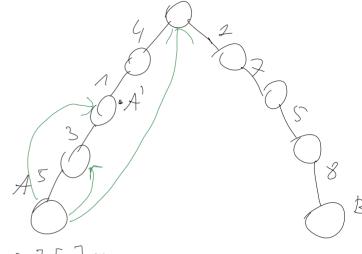
```
int n, skip, Q;
vector<PII> G[MAX_N];
int par[MAX_N], depth[MAX_N], val[MAX_N];
int ancestor[MAX_N][LOG];
int mini[MAX_N][LOG];
```

```
p(mt s, tht busy s)
res = inf;
(int k = LOG-1; k >= 0; k--) {
   if (dist & (1 << k)) {
      res = min(res, mini[v][k]);
      v = ancestor[v][k];</pre>
```

```
int k = 1; k < LOG; k++) {
or (int x = 1; x <= n; x++) {
    ancestor[x][k] = ancestor[ancestor[x][k-1]][k-1];
    mini[x][k] = min(mini[x][k-1], mini[ancestor[x][k-1]][k-1]);</pre>
cin >> Q;
for (int qq = 0; qq < Q; qq++) {
  int u, v;
  cin >> u >> v;
  int lca = findLca(u, v);
            int dist = depth[u] - depth[lca];
int ans = goUp(u, dist);
            dist = depth[v] - depth[lca];
ans = min(ans, goUp(v, dist));
```

```
(CA
```



min:
$$[A][O] =$$
 $min: [A][A] \leq min (5,3) = 3$
 $min: [A][A] = min (min (5,3), min (1,4)) = 1$

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