

```
1.  /*****      dfs 2d map      *****/
2.  #include <iostream>
3.  #include <cstdio>
4.  #include <stack>
5.  #include <queue>
6.  #include <vector>
7.  #include<algorithm>
8.  #include<math.h>
9.  #include<utility>
10. #include<map>
11. #include<set>
12. #include <string.h>
13. #include <iomanip>
14.
15. using namespace std;
16. #define ll long long int
17. #define inf 1000000
18.
19. #define mod 1000000007
20.
21. ll val[100000];
22. map <ll, ll> m[100000];
23. vector < ll > v[100000];
24. ll len[100000];
25. ll vis[100000];
26.
27. ll ans;
28.
29. void dfs(ll a,ll lenn)
30. {
31.     ll p,i,j,sum,pl;
32.
33.     vis[a]=1;
34.
35.     for(i=0;i<len[a];i++)
36.     {
37.         p=v[a][i];
38.
39.         if(vis[p]==1)
40.             continue;
41.
42.         sum=lenn+ m[a][p];
43.         pl=m[a][p];
44.         sum=max(pl,sum);
45.         if(sum>val[p])
46.         {
47.             //dfs(p,lenn);
48.
49.         }
50.         else
51.             3
52.         {
53.             ans++;
54.             //cout<<p<<endl;
55.             dfs(p,sum);
56.
57.         }
58.
```

```
59.  
60.  
61.     }  
62.  
63.  
64.  
65.  
66.  
67. }  
68.  
69. int main()  
70. {  
71.     ll n,i,j,x,y,sum,p,r,q;  
72.     cin>>n;  
73.     for(i=1;i<=n;i++)  
74.         scanf("%I64d",&val[i]);  
75.     ans=0;  
76.  
77.     for(i=1;i<=n-1;i++)  
78.     {  
79.         scanf("%I64d%I64d",&x,&sum);  
80.         y=i+1;  
81.  
82.         v[y].push_back(x);  
83.         v[x].push_back(y);  
84.         len[x]++;  
85.         len[y]++;  
86.         m[x][y]=sum;  
87.         m[y][x]=sum;  
88.     }  
89.     ans++;  
90.     dfs(1,0);  
91.  
92.  
93.     cout<<n-ans;  
94.  
95. }
```