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Can Go?

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Submitted Code

Language: C++20   ⎇ Open in editor

```
1  #include<bits/stdc++.h>
2  using namespace std;
3
4  const int N =1e+5;
5  const int INF = 1e9+7;
6  vector<pair<int,int>> adj[N];
7  vector<int> dist(N,INF);
8  bool visited[N];
9
10
11 void dijkstra(int src)
12 {
13     priority_queue< pair<int,int>, vector< pair<int,int>>, greater<pair<int,int> >> pq;
14     dist[src] = 0;
15     pq.push({dist[src],src});
16
17     while(!pq.empty())
18     {
19         int u = pq.top().second;
20         pq.pop();
21         visited[u] = true;
22
23         for(auto vpair : adj[u])
24         {
25             int v = vpair.first;
```

```cpp
26              int w = vpair.second;
27
28              if(visited[v]) continue;
29
30              if(dist[v] > dist[u] + w)
31              {
32                  dist[v] = dist[u] + w;
33                  pq.push({dist[v],v});
34              }
35          }
36      }
37  }
38
39  int main()
40  {
41      int n, m ;
42      cin >> n >> m ;
43
44      while(m--)
45      {
46          int u, v, w;
47          cin >> u >> v >> w;
48          adj[u].push_back({v,w});
49
50      }
51
52      // for(int i = 1; i<=n;i++)
53      // {
54      //     for(auto v : adj[i])
55      //     {
56      //         cout<< "("<< v.first <<","<<v.second <<")" <<" ";
57      //     }
58      //     cout<<endl;
59      // }
60
61      int src;
62      cin >> src;
63      dijkstra(src);
64
65      // for(int i=1; i<=n;i++)
66      // {
67      //     cout<<"Dist of "<<i <<": " <<dist[i]<<endl;
68      // }
69
70      int test;
71      cin >> test;
72      while(test--)
73      {
74          long long int dest, dw;
75          cin >> dest >> dw;
76
77          if(dist[dest] <= dw)
78              cout<<"YES"<<endl;
79          else
80              cout<<"NO"<<endl;
81      }
82
83      return 0;
84  }
```

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