#include <bits/stdc++.h>

#define INF 1000000000

using namespace std;

typedef pair<int, int> ii;

typedef vector<int> vi;

typedef vector<ii> vii;

typedef vector<vii> al;

int i;

vii g[100005];

int v,e;

int ea,eb,ec;

int main()

{

scanf("%d%d", &v, &e);

for(i=0;i<e;i++)

{

scanf("%d%d%d", &ea, &eb, &ec);

g[ea].push\_back(ii(eb, ec));

}

int s = 0; //source

vi dist(v, INF);

dist[s] = 0;

priority\_queue< ii, vector<ii>, greater<ii> > pq;

pq.push(ii(0,s));

while(!pq.empty())

{

ii front = pq.top();

pq.pop();

int d = front.first, u=front.second;

if(d == dist[u])

{

for(int j=0; j < g[u].size(); j++)

{

ii vu = g[u][j];

if(dist[u] + vu.second < dist[vu.first])

{

dist[vu.first] = dist[u] + vu.second;

pq.push(ii(dist[vu.first],vu.first));

}

}

}

}

return 0;

}