CS263 LAB ASSIGNMENT

FOOD DELIVERY SYSTEM

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Algorithms and Concepts used:

1. **Greedy:** A greedy algorithm is a simple, intuitive algorithm that is used in optimization problems. The algorithm makes the optimal choice at each step as it attempts to find the overall optimal way to solve the entire problem.

2. **Dijkstra Algorithm:** Given a graph and a source vertex in the graph, find the shortest paths from the source to all vertices in the given graph. We generate an SPT (shortest path tree) with a given source as root. We maintain two sets, one set contains vertices included in the shortest path tree, and the other set includes vertices not yet included in the shortest path tree. At every step of the algorithm, we find a vertex that is in the other set (set of not yet included) and has a minimum distance from the source. Path printing using Dijkstra algorithm: We maintain a parent node for every node, the parent of a node is the node by which the current node is explored in the Dijkstra algorithm. Multi-source Dijkstra: To get the shortest distance of a place to multiple sources.

3. **Sorting** – Searching (binary search, linear search)

4. **Elementary concepts**: Loops, pointers, pairs, recursion, memorization.

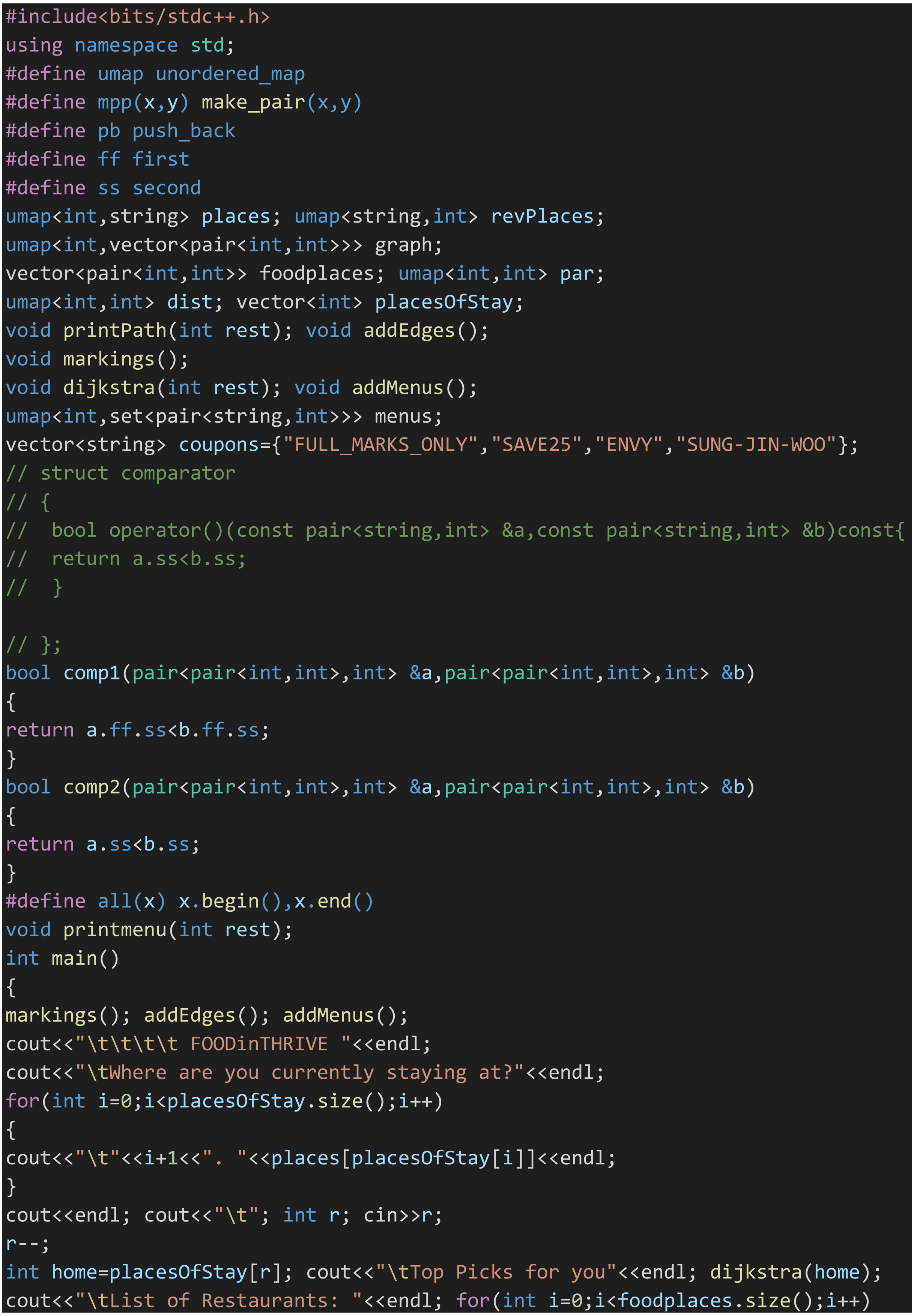
Advanced-Data Structures Used

1. **Arrays and vectors:** A vector is a sequence container class that implements a dynamic array, which means size automatically changes when appending elements. A vector stores the elements in contiguous memory locations and allocates the memory as needed at run time.

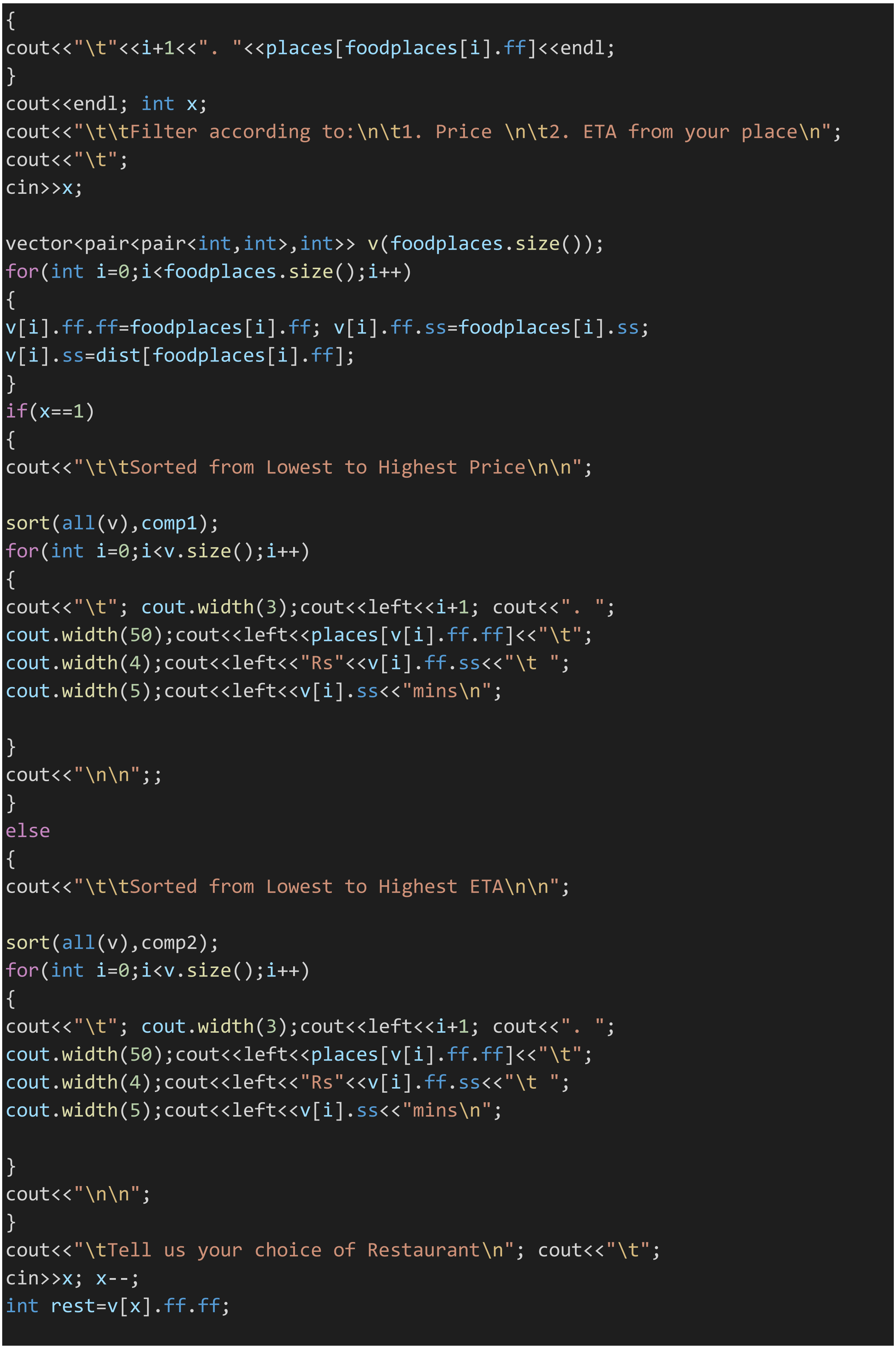
2. **HashMap:** HashMap is a Map-based collection class that is used for storing Key & value pairs, in C++, a hash map is known as an unordered map. Hash maps are implemented using hash functions, a key is processed by a hash function and the returned value gives us the index for the value.

3. **Set:** Sets are a type of associative container in which each element has to be unique because the value of the element identifies it. A set is implemented using an AVL tree. AVL Tree (Adelson, Velski & Landis), is a balancing BST (Binary Search Tree), being balanced, insertion, search and deletion operations are done in O(log n) time complexity.

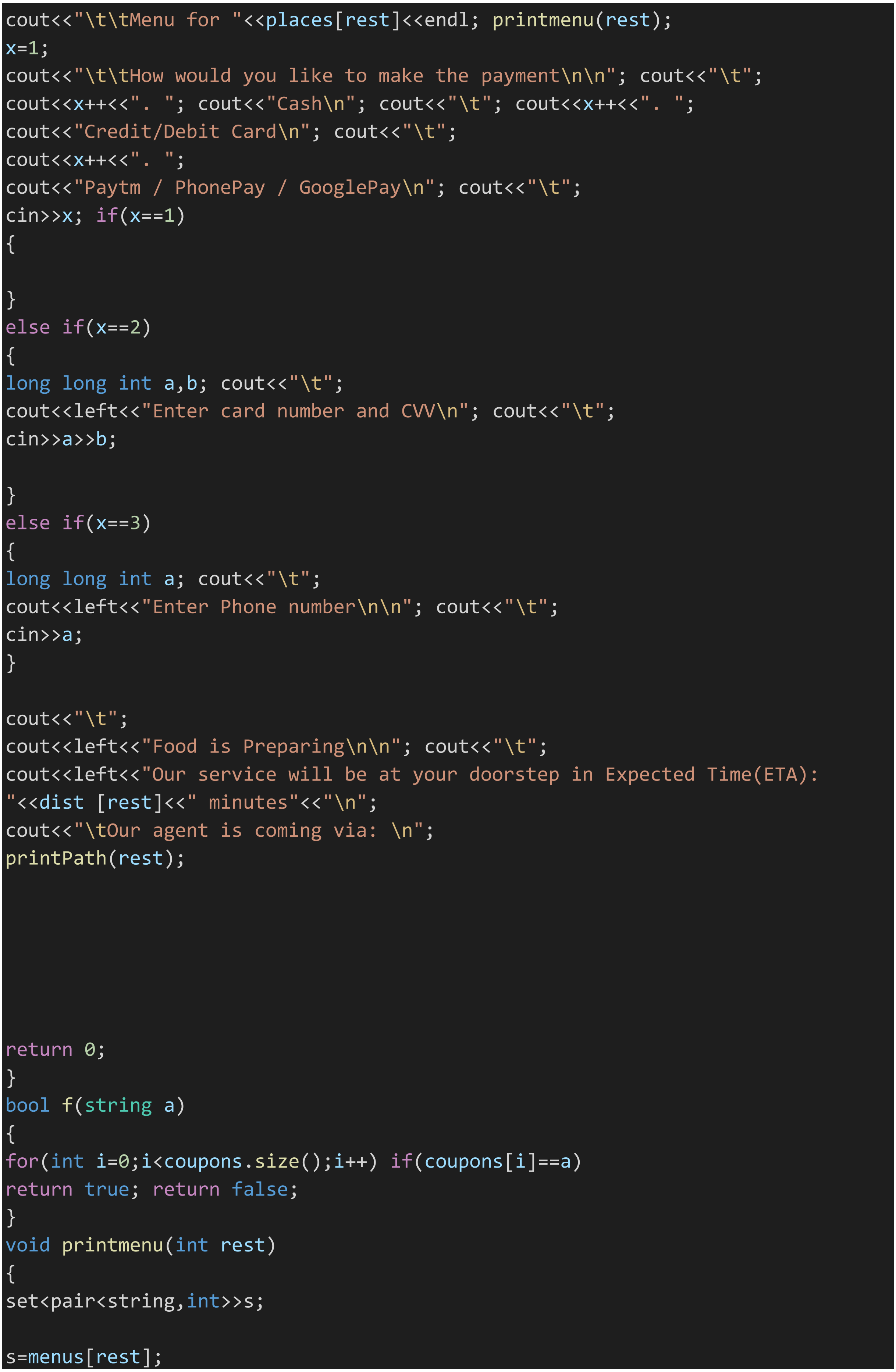
4. **Graphs:** Formally, a graph is a pair of sets (V, E), where V is the set of vertices and E is the set of edges, connecting the pairs of vertices. We have implemented a weighted undirected graph to denote two-way roads.



```
#include<bits/stdc++.h>
using namespace std;
#define umap unordered_map
#define mpp(x,y) make_pair(x,y)
#define pb push_back
#define ff first
#define ss second
umap<int,string> places; umap<string,int> revPlaces;
umap<int,vector<pair<int,int>>> graph;
vector<pair<int,int>> foodplaces; umap<int,int> par;
umap<int,int> dist; vector<int> placesOfStay;
void printPath(int rest); void addEdges();
void markings();
void dijkstra(int rest); void addMenus();
umap<int,set<pair<string,int>>> menus;
vector<string> coupons={"FULL_MARKS_ONLY","SAVE25","ENVY","SUNG-JIN-WOO"};
// struct comparator
// {
//  bool operator()(const pair<string,int> &a,const pair<string,int> &b)const{
//  return a.ss<b.ss;
//  }

// };
bool comp1(pair<pair<int,int>,int> &a,pair<pair<int,int>,int> &b)
{
return a.ff.ss<b.ff.ss;
}
bool comp2(pair<pair<int,int>,int> &a,pair<pair<int,int>,int> &b)
{
return a.ss<b.ss;
}
#define all(x) x.begin(),x.end()
void printmenu(int rest);
int main()
{
markings(); addEdges(); addMenus();
cout<<"\t\t\t\t FOODinTHRIVE "<<endl;
cout<<"\tWhere are you currently staying at?"<<endl;
for(int i=0;i<placesOfStay.size();i++)
{
cout<<"\t"<<i+1<<". "<<places[placesOfStay[i]]<<endl;
}
cout<<endl; cout<<"\t"; int r; cin>>r;
r--;
int home=placesOfStay[r]; cout<<"\tTop Picks for you"<<endl; dijkstra(home);
cout<<"\tList of Restaurants: "<<endl; for(int i=0;i<foodplaces.size();i++)
```

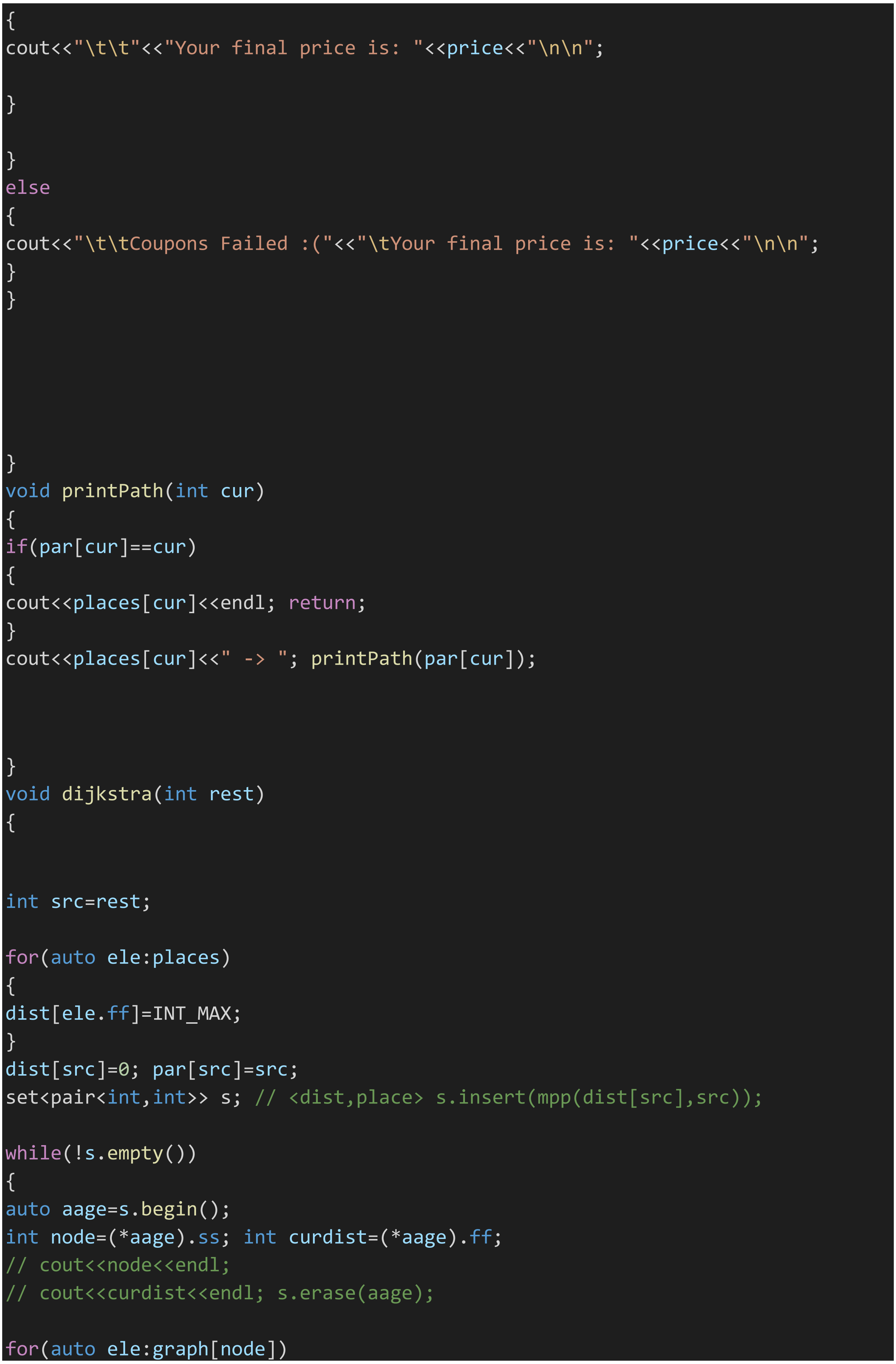


```
{
cout<<"\t"<<i+1<<". "<<places[foodplaces[i].ff]<<endl;
}
cout<<endl; int x;
cout<<"\t\tFilter according to:\n\t1. Price \n\t2. ETA from your place\n";
cout<<"\t";
cin>>x;

vector<pair<pair<int,int>,int>> v(foodplaces.size());
for(int i=0;i<foodplaces.size();i++)
{
v[i].ff.ff=foodplaces[i].ff; v[i].ff.ss=foodplaces[i].ss;
v[i].ss=dist[foodplaces[i].ff];
}
if(x==1)
{
cout<<"\t\tSorted from Lowest to Highest Price\n\n";

sort(all(v),comp1);
for(int i=0;i<v.size();i++)
{
cout<<"\t"; cout.width(3);cout<<left<<i+1; cout<<". ";
cout.width(50);cout<<left<<places[v[i].ff.ff]<<"\t";
cout.width(4);cout<<left<<"Rs"<<v[i].ff.ss<<"\t ";
cout.width(5);cout<<left<<v[i].ss<<"mins\n";

}
cout<<"\n\n";;
}
else
{
cout<<"\t\tSorted from Lowest to Highest ETA\n\n";

sort(all(v),comp2);
for(int i=0;i<v.size();i++)
{
cout<<"\t"; cout.width(3);cout<<left<<i+1; cout<<". ";
cout.width(50);cout<<left<<places[v[i].ff.ff]<<"\t";
cout.width(4);cout<<left<<"Rs"<<v[i].ff.ss<<"\t ";
cout.width(5);cout<<left<<v[i].ss<<"mins\n";

}
cout<<"\n\n";
}
cout<<"\tTell us your choice of Restaurant\n"; cout<<"\t";
cin>>x; x--;
int rest=v[x].ff.ff;
```

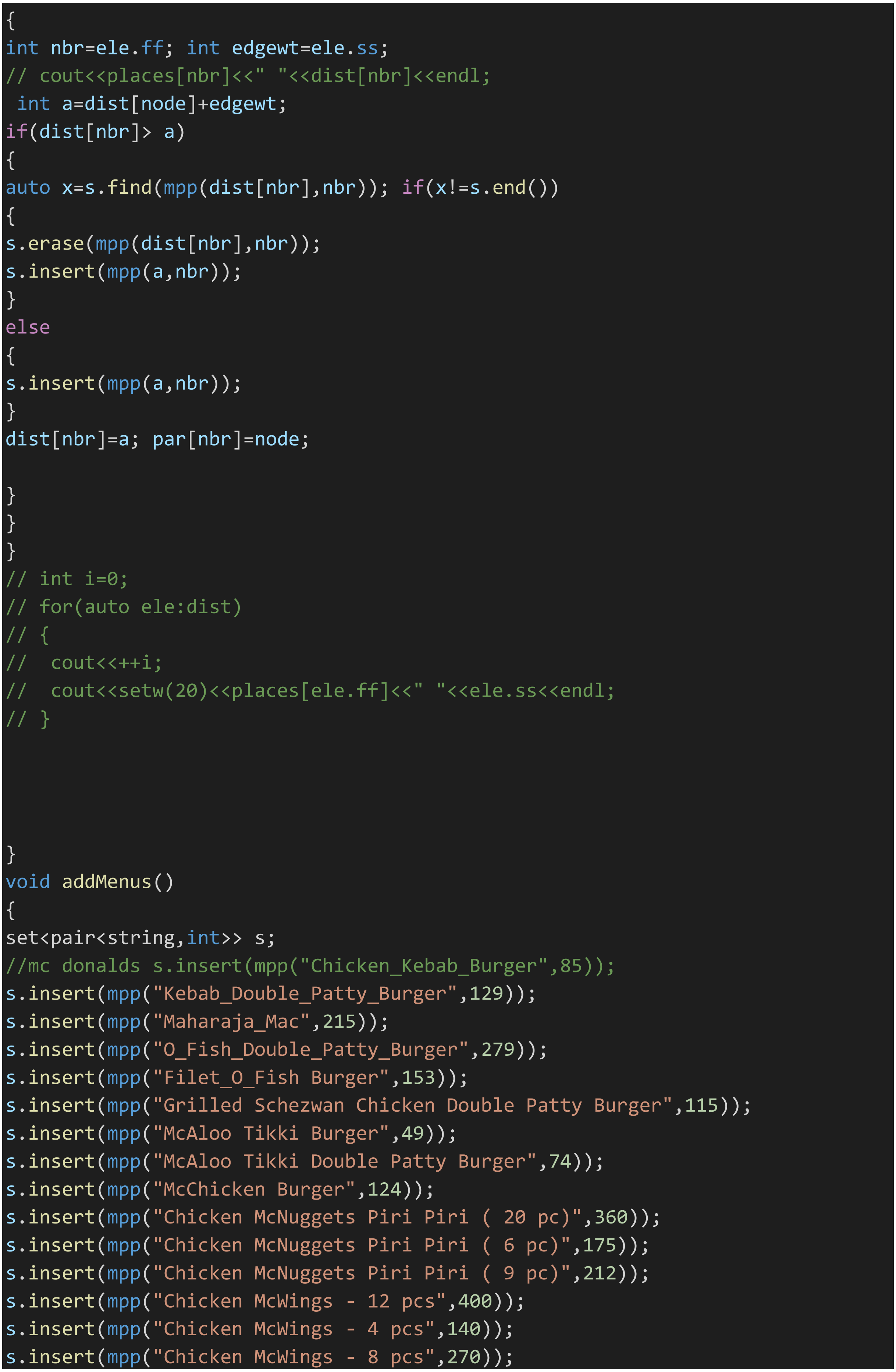


```
cout<<"\t\tMenu for "<<places[rest]<<endl; printmenu(rest);
x=1;
cout<<"\t\tHow would you like to make the payment\n\n"; cout<<"\t";
cout<<x++<<". "; cout<<"Cash\n"; cout<<"\t"; cout<<x++<<". ";
cout<<"Credit/Debit Card\n"; cout<<"\t";
cout<<x++<<". ";
cout<<"Paytm / PhonePay / GooglePay\n"; cout<<"\t";
cin>>x; if(x==1)
{

}
else if(x==2)
{
long long int a,b; cout<<"\t";
cout<<left<<"Enter card number and CVV\n"; cout<<"\t";
cin>>a>>b;

}
else if(x==3)
{
long long int a; cout<<"\t";
cout<<left<<"Enter Phone number\n\n"; cout<<"\t";
cin>>a;
}

cout<<"\t";
cout<<left<<"Food is Preparing\n\n"; cout<<"\t";
cout<<left<<"Our service will be at your doorstep in Expected Time(ETA):
"<<dist [rest]<<" minutes"<<"\n";
cout<<"\tOur agent is coming via: \n";
printPath(rest);







return 0;
}
bool f(string a)
{
for(int i=0;i<coupons.size();i++) if(coupons[i]==a)
return true; return false;
}
void printmenu(int rest)
{
set<pair<string,int>>s;

s=menus[rest];
```

```
vector<pair<string,int>> v(s.begin(),s.end()); int i=0;
for(auto it=s.begin();it!=s.end();it++)
{
cout<<"\t"; cout.width(3);cout<<left<<++i<<". ";
 cout.width(50);cout<<left<<(*it).ff;
cout<<" "<<(*it).ss<<"\n";
}
cout<<"\n\n"; int price=0;
set<pair<string,int>> currentMenu;
cout<<"\tEnter the number of items you want to add\n\t"; int n,x,qty;
cout<<"\t"; cin>>n;
for(int i=0;i<n;i++)
{
cout<<"\tEnter serial number and quantity\n\t"; cin>>x>>qty;
x--;
int pr=qty * v[x].ss; price+=pr;
currentMenu.insert(mpp(v[i].ff,pr));

}
cout<<"\t\nYour final Menu looks like: \n\n"; i=0;
for(auto it=currentMenu.begin();it!=currentMenu.end();it++)
{
cout<<"\t"; cout.width(3);cout<<left<<++i<<". ";
cout.width(50);cout<<left<<(*it).ff; cout<<" "<<(*it).ss<<"\n";
}
cout<<"\n"; cout<<"\t   ";
cout.width(53);cout<<left<<"Final Price to pay: "<<price<<"\n\n";
cout<<"\tDo you have a discount coupon\n\t";
string a; cin>>a; int val=4;
sort(all(coupons)); while(val--){
if(f(a))
{


cout<<"\t\t\t **CONGRATS 25% discount applied**\n"; cout.width(55);
cout<<left<<"\tYour final price is: "<<(float)0.75*price<<"\n\n";

break;

}



else if(val)
{
cout<<"\tOops coupon failed,Do you want to retry?\n\t1.Retry 0.Exit?\n\t";
int ret;
cin>>ret;
if(!ret)
```

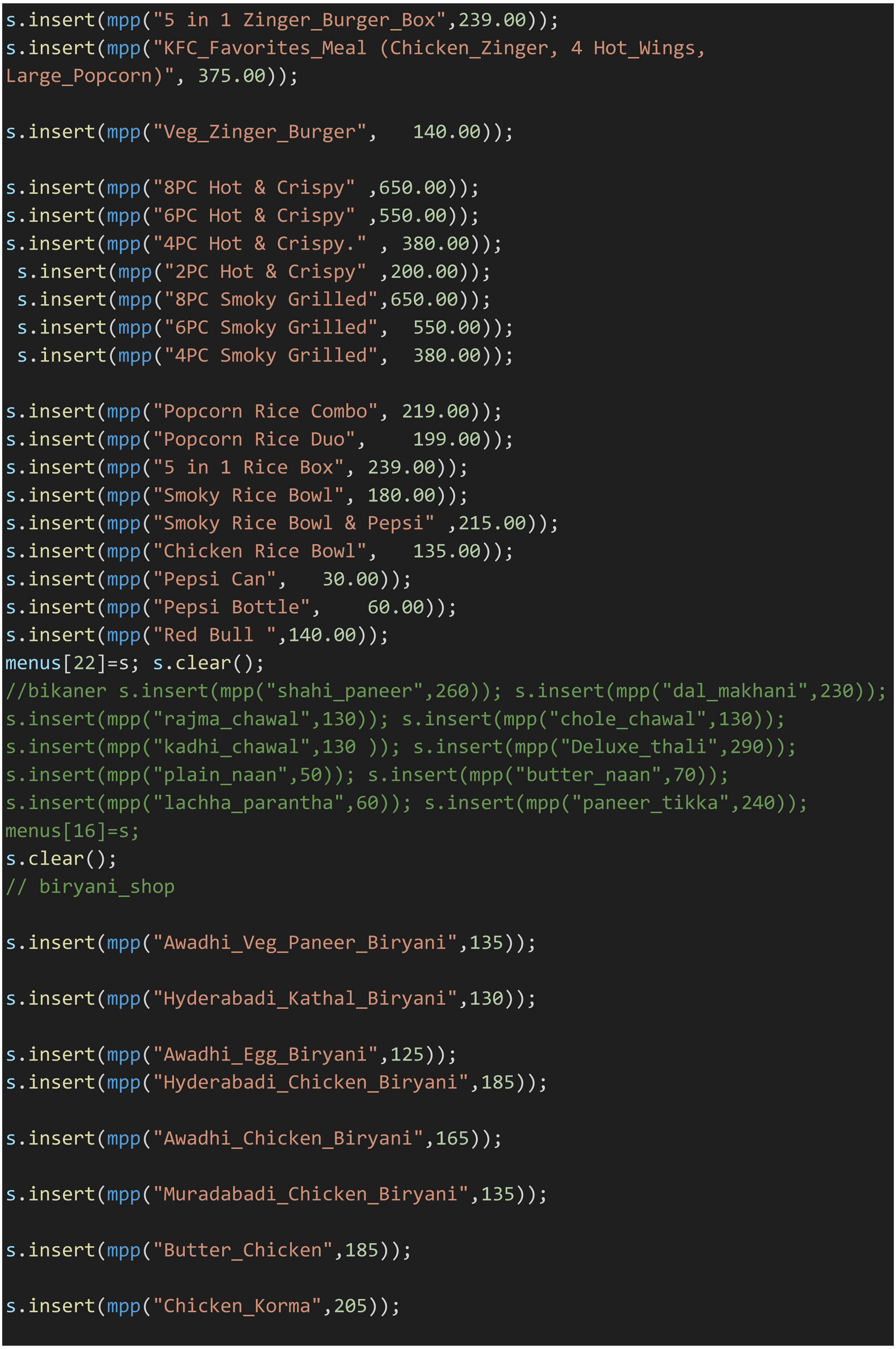


```
{
cout<<"\t\t"<<"Your final price is: "<<price<<"\n\n";

}

}
else
{
cout<<"\t\tCoupons Failed :("<<"\tYour final price is: "<<price<<"\n\n";
}
}





}
void printPath(int cur)
{
if(par[cur]==cur)
{
cout<<places[cur]<<endl; return;
}
cout<<places[cur]<<" -> "; printPath(par[cur]);



}
void dijkstra(int rest)
{


int src=rest;

for(auto ele:places)
{
dist[ele.ff]=INT_MAX;
}
dist[src]=0; par[src]=src;
set<pair<int,int>> s; // <dist,place> s.insert(mpp(dist[src],src));

while(!s.empty())
{
auto aage=s.begin();
int node=(*aage).ss; int curdist=(*aage).ff;
// cout<<node<<endl;
// cout<<curdist<<endl; s.erase(aage);

for(auto ele:graph[node])
```

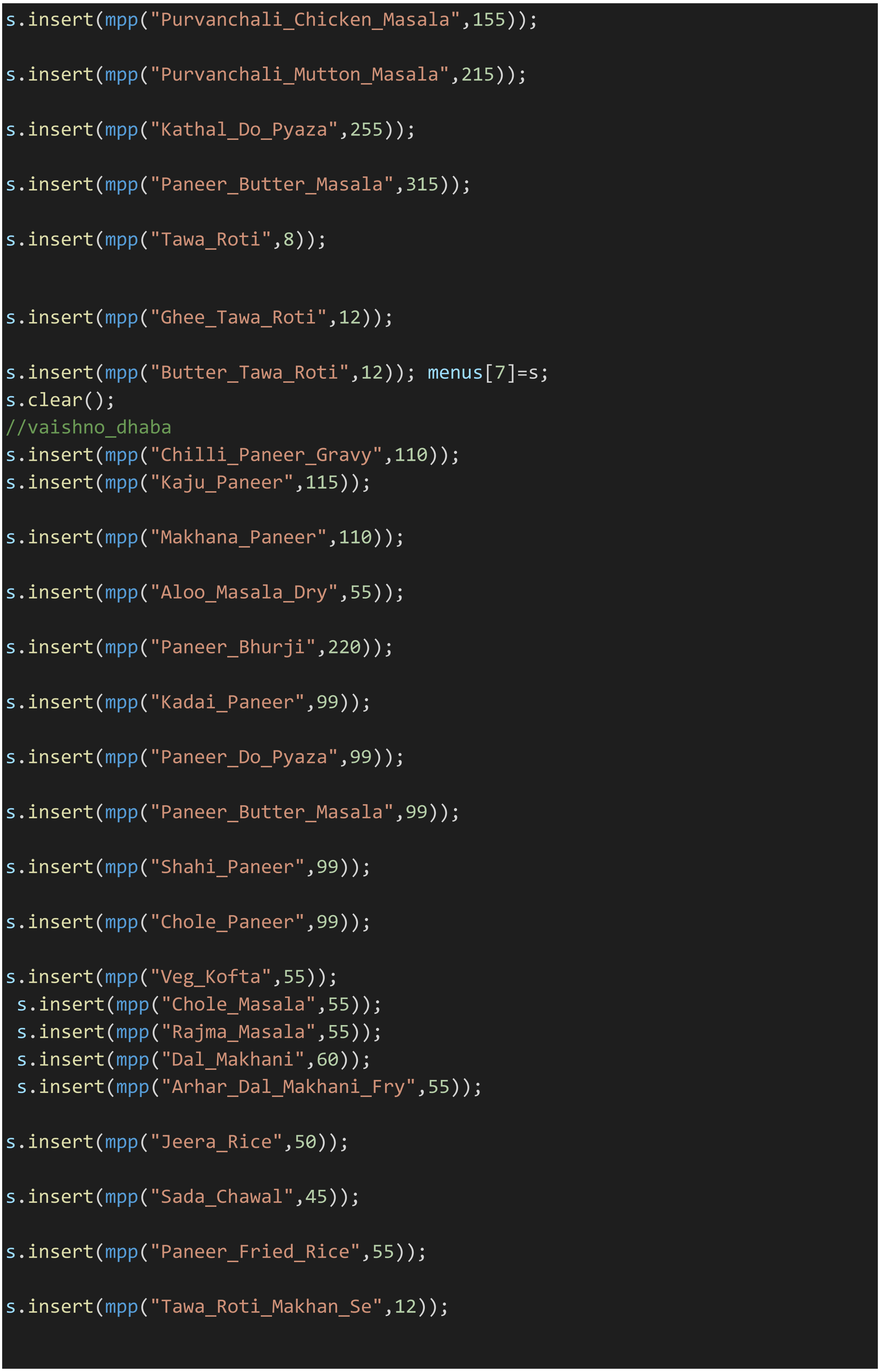


```
{
int nbr=ele.ff; int edgewt=ele.ss;
// cout<<places[nbr]<<" "<<dist[nbr]<<endl;
 int a=dist[node]+edgewt;
if(dist[nbr]> a)
{
auto x=s.find(mpp(dist[nbr],nbr)); if(x!=s.end())
{
s.erase(mpp(dist[nbr],nbr));
s.insert(mpp(a,nbr));
}
else
{
s.insert(mpp(a,nbr));
}
dist[nbr]=a; par[nbr]=node;

}
}
}
// int i=0;
// for(auto ele:dist)
// {
//  cout<<++i;
//  cout<<setw(20)<<places[ele.ff]<<" "<<ele.ss<<endl;
// }




}
void addMenus()
{
set<pair<string,int>> s;
//mc donalds s.insert(mpp("Chicken_Kebab_Burger",85));
s.insert(mpp("Kebab_Double_Patty_Burger",129));
s.insert(mpp("Maharaja_Mac",215));
s.insert(mpp("O_Fish_Double_Patty_Burger",279));
s.insert(mpp("Filet_O_Fish Burger",153));
s.insert(mpp("Grilled Schezwan Chicken Double Patty Burger",115));
s.insert(mpp("McAloo Tikki Burger",49));
s.insert(mpp("McAloo Tikki Double Patty Burger",74));
s.insert(mpp("McChicken Burger",124));
s.insert(mpp("Chicken McNuggets Piri Piri ( 20 pc)",360));
s.insert(mpp("Chicken McNuggets Piri Piri ( 6 pc)",175));
s.insert(mpp("Chicken McNuggets Piri Piri ( 9 pc)",212));
s.insert(mpp("Chicken McWings - 12 pcs",400));
s.insert(mpp("Chicken McWings - 4 pcs",140));
s.insert(mpp("Chicken McWings - 8 pcs",270));
```

```cpp
s.insert(mpp("Fries (L)",116));
s.insert(mpp("Fries (M)",98));
s.insert(mpp("Fries (R)",60)); menus[21]=s;
s.clear();
// s=menus[21];
// int i=0;
// for(auto it=s.begin();it!=s.end();it++)
// {
//  cout<<"\t";
//  cout.width(3);cout<<left<<++i<<". ";
//  cout.width(50);cout<<left<<(*it).ff;
//  cout<<" "<<(*it).ss<<"\n";
// }

//the chef
s.insert(mpp("french fries",70));
s.insert(mpp("chilly potato",100));
s.insert(mpp("paneer tikka",100));
s.insert(mpp("paneer tikka roll",120));
s.insert(mpp("chicken tikka roll",140));
s.insert(mpp("rajma",8));
s.insert(mpp("chole",70)); s.insert(mpp("shahi paneer",170));
s.insert(mpp("kadhai paneer",180)); s.insert(mpp("dal makhani",160));
menus[6]=s;
s.clear();
//Aggarwal
s.insert(mpp("Agarwal_ Laddu",50)); s.insert(mpp("Badam_Soan_Papdi",170));
s.insert(mpp("Bombay_Jalebi",135));

s.insert(mpp("Kalakand",150)); s.insert(mpp("Badam_Halwa",285 ));
s.insert(mpp("Gulab_Jamun (1 Pc)",36));
s.insert(mpp("Rasgulla (1 Pc)",36));

s.insert(mpp("Rasmalai(1 Pc)",36)); s.insert(mpp("Kaju_Katli",260));
s.insert(mpp("Samosa",22));
s.insert(mpp("Panipuri",60)); menus[11]=s;
s.clear();
//bittu_tikki s.insert(mpp("bittu_special_tikki",95));
s.insert(mpp("raj_kachori",110)); s.insert(mpp("plain_dhokla",55));
s.insert(mpp("pani_puri",50)); s.insert(mpp("BTW_special_thali",276));
s.insert(mpp("tandoori_platter",248)); s.insert(mpp("chinese_platter",219));
s.insert(mpp("sambhar_vada",70)); s.insert(mpp("shahi_paneer",225));
s.insert(mpp("dal_makhani",225)); menus[26]=s;
//KFC

s.insert(mpp("Zinger_Burger ",150.00));
s.insert(mpp("Zinger_Burger_Combo", 229.00));
s.insert(mpp("2 x Zinger_Burgers",219.00));
```



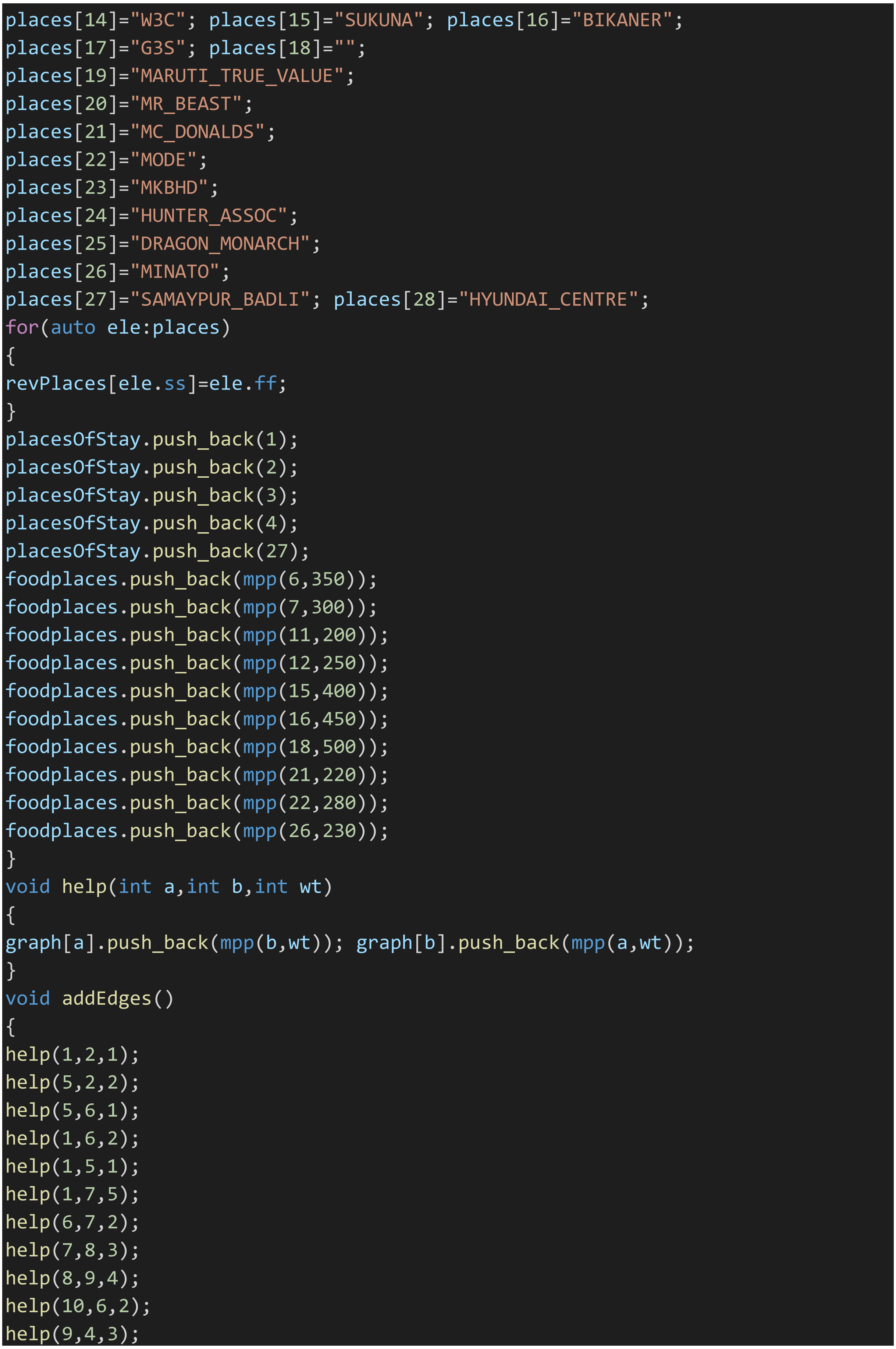
```
s.insert(mpp("5 in 1 Zinger_Burger_Box",239.00));
s.insert(mpp("KFC_Favorites_Meal (Chicken_Zinger, 4 Hot_Wings,
Large_Popcorn)", 375.00));

s.insert(mpp("Veg_Zinger_Burger",   140.00));

s.insert(mpp("8PC Hot & Crispy" ,650.00));
s.insert(mpp("6PC Hot & Crispy" ,550.00));
s.insert(mpp("4PC Hot & Crispy." , 380.00));
 s.insert(mpp("2PC Hot & Crispy" ,200.00));
 s.insert(mpp("8PC Smoky Grilled",650.00));
 s.insert(mpp("6PC Smoky Grilled",  550.00));
 s.insert(mpp("4PC Smoky Grilled",  380.00));

s.insert(mpp("Popcorn Rice Combo", 219.00));
s.insert(mpp("Popcorn Rice Duo",    199.00));
s.insert(mpp("5 in 1 Rice Box", 239.00));
s.insert(mpp("Smoky Rice Bowl", 180.00));
s.insert(mpp("Smoky Rice Bowl & Pepsi" ,215.00));
s.insert(mpp("Chicken Rice Bowl",   135.00));
s.insert(mpp("Pepsi Can",   30.00));
s.insert(mpp("Pepsi Bottle",    60.00));
s.insert(mpp("Red Bull ",140.00));
menus[22]=s; s.clear();
//bikaner s.insert(mpp("shahi_paneer",260)); s.insert(mpp("dal_makhani",230));
s.insert(mpp("rajma_chawal",130)); s.insert(mpp("chole_chawal",130));
s.insert(mpp("kadhi_chawal",130 )); s.insert(mpp("Deluxe_thali",290));
s.insert(mpp("plain_naan",50)); s.insert(mpp("butter_naan",70));
s.insert(mpp("lachha_parantha",60)); s.insert(mpp("paneer_tikka",240));
menus[16]=s;
s.clear();
// biryani_shop

s.insert(mpp("Awadhi_Veg_Paneer_Biryani",135));

s.insert(mpp("Hyderabadi_Kathal_Biryani",130));

s.insert(mpp("Awadhi_Egg_Biryani",125));
s.insert(mpp("Hyderabadi_Chicken_Biryani",185));

s.insert(mpp("Awadhi_Chicken_Biryani",165));

s.insert(mpp("Muradabadi_Chicken_Biryani",135));

s.insert(mpp("Butter_Chicken",185));

s.insert(mpp("Chicken_Korma",205));
```



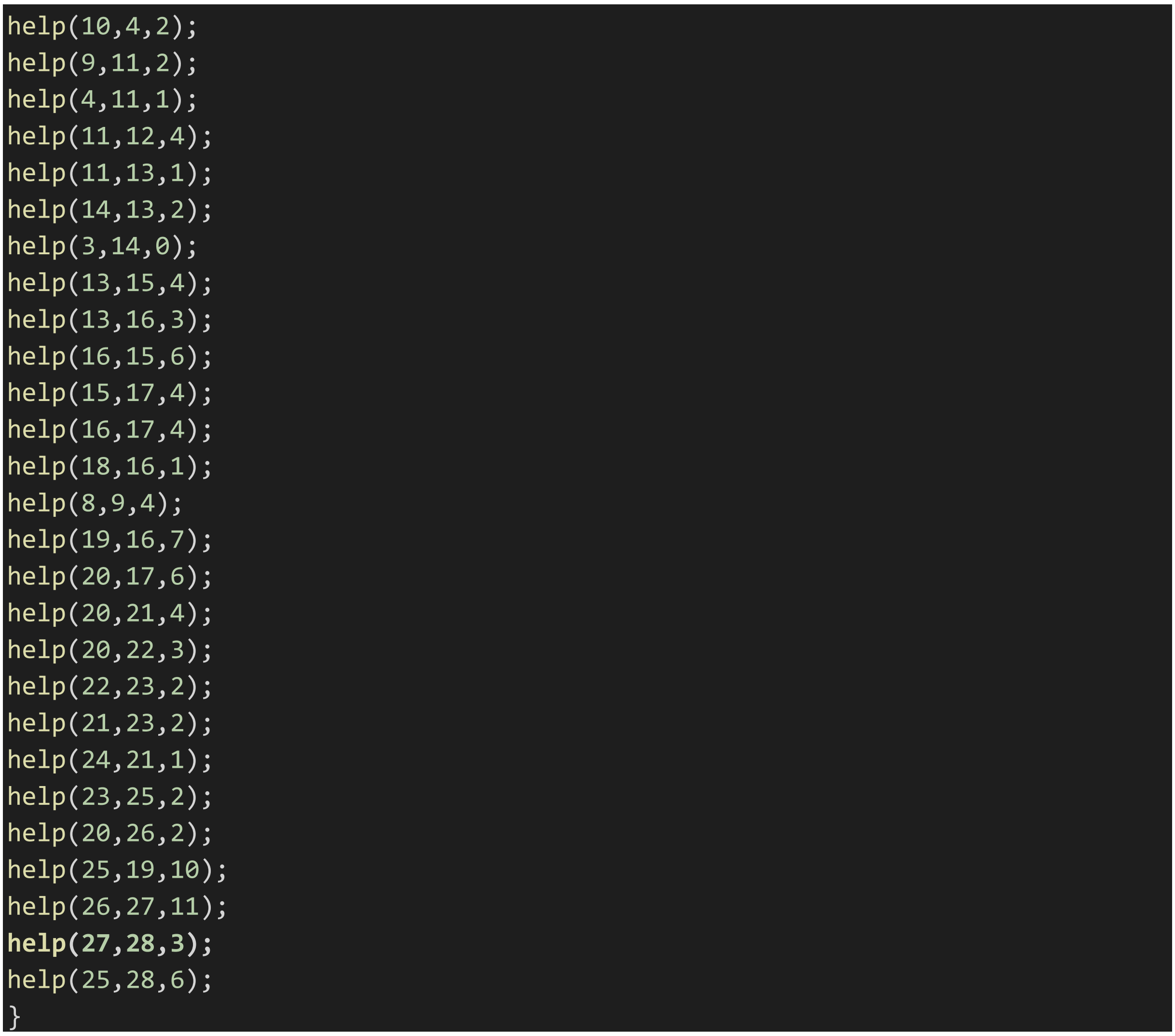
```
s.insert(mpp("Purvanchali_Chicken_Masala",155));

s.insert(mpp("Purvanchali_Mutton_Masala",215));

s.insert(mpp("Kathal_Do_Pyaza",255));

s.insert(mpp("Paneer_Butter_Masala",315));

s.insert(mpp("Tawa_Roti",8));


s.insert(mpp("Ghee_Tawa_Roti",12));

s.insert(mpp("Butter_Tawa_Roti",12)); menus[7]=s;
s.clear();
//vaishno_dhaba
s.insert(mpp("Chilli_Paneer_Gravy",110));
s.insert(mpp("Kaju_Paneer",115));

s.insert(mpp("Makhana_Paneer",110));

s.insert(mpp("Aloo_Masala_Dry",55));

s.insert(mpp("Paneer_Bhurji",220));

s.insert(mpp("Kadai_Paneer",99));

s.insert(mpp("Paneer_Do_Pyaza",99));

s.insert(mpp("Paneer_Butter_Masala",99));

s.insert(mpp("Shahi_Paneer",99));

s.insert(mpp("Chole_Paneer",99));

s.insert(mpp("Veg_Kofta",55));
 s.insert(mpp("Chole_Masala",55));
 s.insert(mpp("Rajma_Masala",55));
 s.insert(mpp("Dal_Makhani",60));
 s.insert(mpp("Arhar_Dal_Makhani_Fry",55));

s.insert(mpp("Jeera_Rice",50));

s.insert(mpp("Sada_Chawal",45));

s.insert(mpp("Paneer_Fried_Rice",55));

s.insert(mpp("Tawa_Roti_Makhan_Se",12));
```

```
s.insert(mpp("Dahi_Vada",30));

s.insert(mpp("Boondi_Raita",20));
s.insert(mpp("Chole_Chawal",120));

s.insert(mpp("Rajma_Chawal",120));

s.insert(mpp("Dal_Chawal",120));

s.insert(mpp("Kadhi_Chawal",120));

s.insert(mpp("Kheer",35)); menus[12]=s;
s.clear();
//Apsara
s.insert(mpp("Rajma_Chawal",110));
 s.insert(mpp("Chole_Chawal" ,110));

s.insert(mpp("Special_Thali",180));
s.insert(mpp("Deluxe_Thali",230));

s.insert(mpp("Veg_Cutlet",70));

s.insert(mpp("Veg_Spring_Roll",110));

s.insert(mpp("Chaap_Nuggets",90));

s.insert(mpp("French_Fries",80)); s.insert(mpp("Peri_Peri_Spicy_Fries",100));

s.insert(mpp("Gol_Gappe",25));

s.insert(mpp("Dahi_Bhalla",80));


s.insert(mpp("Raj_Kachori",100)); s.insert(mpp("Rajma",160));

s.insert(mpp("Mixed_Vegetable",160));

s.insert(mpp("Chana_Masala",160));

s.insert(mpp("Mattar_Paneer",170)); s.insert(mpp("Shahi_Paneer",180));

s.insert(mpp("Malai_Kofta",180));

s.insert(mpp("Kadai_Paneer",190));
s.insert(mpp("Paneer_Butter_Masala",190));
 s.insert(mpp("Veg_Manchurian_Gravy",90));

s.insert(mpp("Dal_Makhani",160)); s.insert(mpp("Veg_Biryani",180));
```

```
s.insert(mpp("Veg_Rice",80));
s.insert(mpp("Butter_Jeera_Rice",110));
s.insert(mpp("Roti",14));
s.insert(mpp("Butter_Roti",18));
s.insert(mpp("Rumali_Roti",12));
s.insert(mpp("Missi_Roti",30));
s.insert(mpp("Plain_Naan",27));
s.insert(mpp("Butter_Naan",35));
 s.insert(mpp("Stuffed_Paratha",50));
  s.insert(mpp("Lassi",50));
menus[15]=s; s.clear();
//al_Qureshi s.insert(mpp("Tandoori_Chicken",140));
s.insert(mpp("Afghani_Chicken",155)); s.insert(mpp("Chicken_Fry",115));
s.insert(mpp("Chicken_Lollipop",130));

 s.insert(mpp("Tawa_Chicken",220));
 s.insert(mpp("Butter_Chicken",220));
 s.insert(mpp("Chicken_Tikka(6 Pcs)",215));
 s.insert(mpp("Malai_Tikka(6 Pcs)",220));
 s.insert(mpp("Chicken_Seekh_Kebab(6 Pcs)",155));
 s.insert(mpp("Boneless_Tawa_Chicken",250));
 s.insert(mpp("Boneless_Butter_Chicken",250));
 s.insert(mpp("Paneer_Tikka",155));
 s.insert(mpp("Chicken_Tikka_Roll",150));
 s.insert(mpp("Chicken_Kebab_Roll",130));
 s.insert(mpp("Rumali_Roti",10));

 s.insert(mpp("Tandoori_Roti",15)); s.insert(mpp("Butter_Naan",40));

s.insert(mpp("Plain_Naan",25)); menus[18]=s;
s.clear();

}


void markings()
{
places[1]="IIITV";
places[2]="RAJLABDHI";
places[3]="7_PERSON";
places[4]="JUJUTSU_TECH";
places[5]="ICHIRAKU";
places[6]="THE_CHEF";
places[7]="BIRYANI_SHOP";
places[8]="TRIKHA_INSTITUTE";
places[9]="TACO";
places[10]="DIGITAL_ZONE";
places[11]="AGGARWAL_SWEETS";
places[12]="VAISHO_DHABA"; places[13]="ITADORI_YUJI";
```

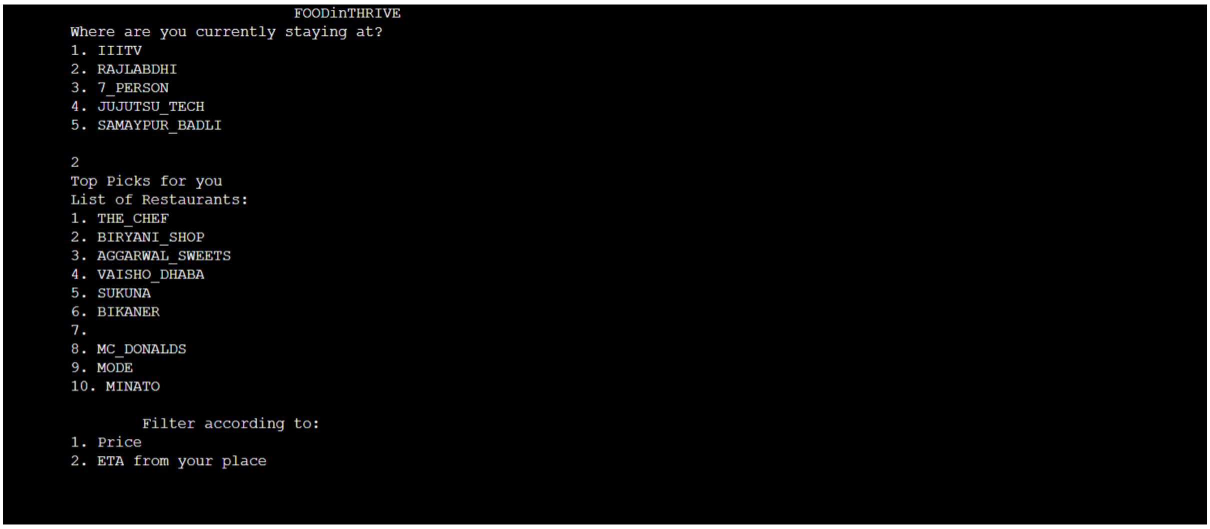


```
places[14]="W3C"; places[15]="SUKUNA"; places[16]="BIKANER";
places[17]="G3S"; places[18]="";
places[19]="MARUTI_TRUE_VALUE";
places[20]="MR_BEAST";
places[21]="MC_DONALDS";
places[22]="MODE";
places[23]="MKBHD";
places[24]="HUNTER_ASSOC";
places[25]="DRAGON_MONARCH";
places[26]="MINATO";
places[27]="SAMAYPUR_BADLI"; places[28]="HYUNDAI_CENTRE";
for(auto ele:places)
{
revPlaces[ele.ss]=ele.ff;
}
placesOfStay.push_back(1);
placesOfStay.push_back(2);
placesOfStay.push_back(3);
placesOfStay.push_back(4);
placesOfStay.push_back(27);
foodplaces.push_back(mpp(6,350));
foodplaces.push_back(mpp(7,300));
foodplaces.push_back(mpp(11,200));
foodplaces.push_back(mpp(12,250));
foodplaces.push_back(mpp(15,400));
foodplaces.push_back(mpp(16,450));
foodplaces.push_back(mpp(18,500));
foodplaces.push_back(mpp(21,220));
foodplaces.push_back(mpp(22,280));
foodplaces.push_back(mpp(26,230));
}
void help(int a,int b,int wt)
{
graph[a].push_back(mpp(b,wt)); graph[b].push_back(mpp(a,wt));
}
void addEdges()
{
help(1,2,1);
help(5,2,2);
help(5,6,1);
help(1,6,2);
help(1,5,1);
help(1,7,5);
help(6,7,2);
help(7,8,3);
help(8,9,4);
help(10,6,2);
help(9,4,3);
```

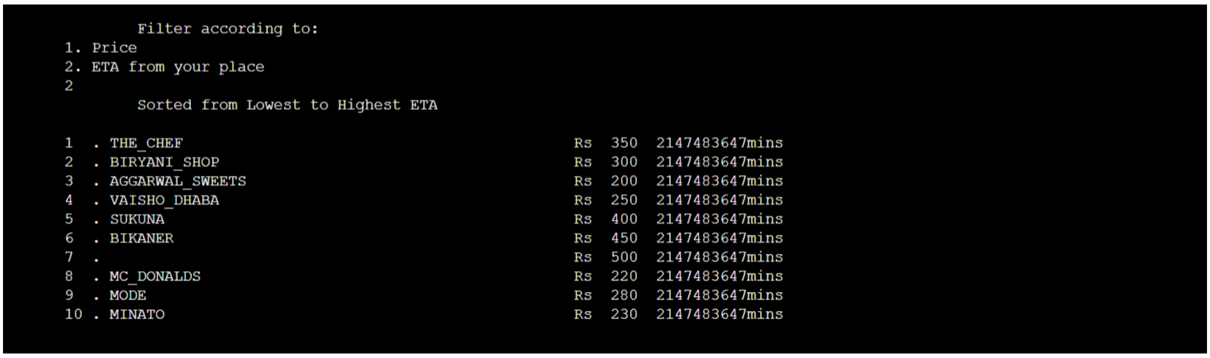


```
help(10,4,2);
help(9,11,2);
help(4,11,1);
help(11,12,4);
help(11,13,1);
help(14,13,2);
help(3,14,0);
help(13,15,4);
help(13,16,3);
help(16,15,6);
help(15,17,4);
help(16,17,4);
help(18,16,1);
help(8,9,4);
help(19,16,7);
help(20,17,6);
help(20,21,4);
help(20,22,3);
help(22,23,2);
help(21,23,2);
help(24,21,1);
help(23,25,2);
help(20,26,2);
help(25,19,10);
help(26,27,11);
help(27,28,3);
help(25,28,6);
}
```

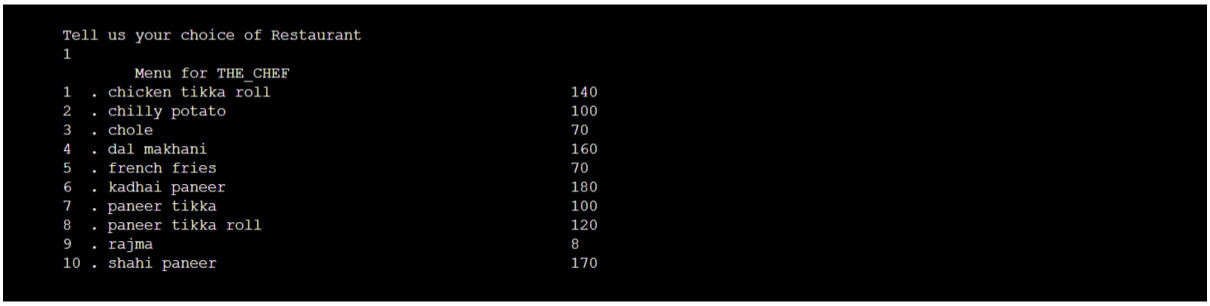
output



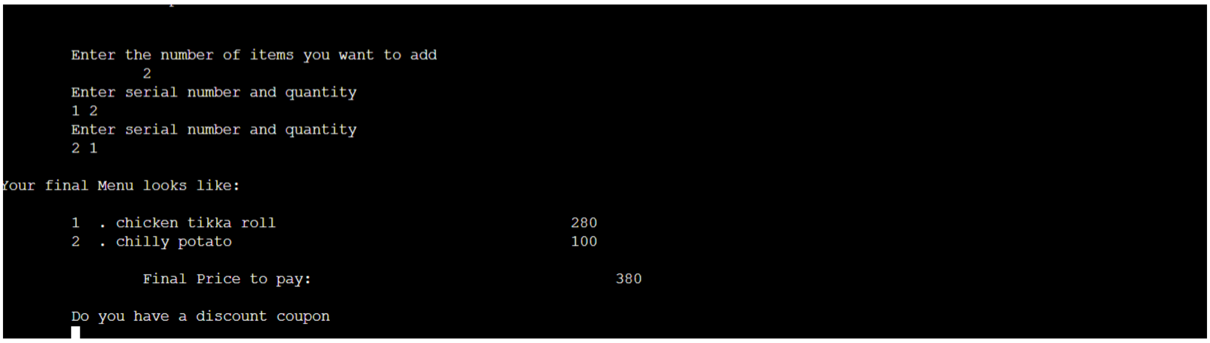
```
                         FOODinTHRIVE
Where are you currently staying at?
1. IIITV
2. RAJLABDHI
3. 7_PERSON
4. JUJUTSU_TECH
5. SAMAYPUR_BADLI

2
Top Picks for you
List of Restaurants:
1. THE_CHEF
2. BIRYANI_SHOP
3. AGGARWAL_SWEETS
4. VAISHO_DHABA
5. SUKUNA
6. BIKANER
7.
8. MC_DONALDS
9. MODE
10. MINATO

        Filter according to:
1. Price
2. ETA from your place
```



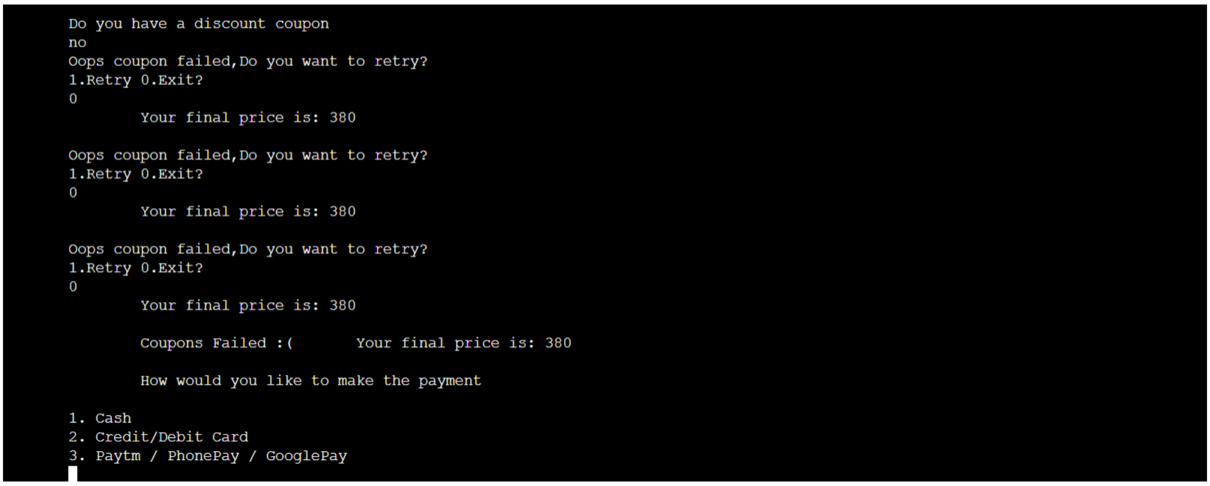
```
        Filter according to:
1. Price
2. ETA from your place
2
        Sorted from Lowest to Highest ETA

1   . THE_CHEF                                               Rs  350  2147483647mins
2   . BIRYANI_SHOP                                           Rs  300  2147483647mins
3   . AGGARWAL_SWEETS                                        Rs  200  2147483647mins
4   . VAISHO_DHABA                                           Rs  250  2147483647mins
5   . SUKUNA                                                 Rs  400  2147483647mins
6   . BIKANER                                                Rs  450  2147483647mins
7   .                                                        Rs  500  2147483647mins
8   . MC_DONALDS                                             Rs  220  2147483647mins
9   . MODE                                                   Rs  280  2147483647mins
10  . MINATO                                                 Rs  230  2147483647mins
```



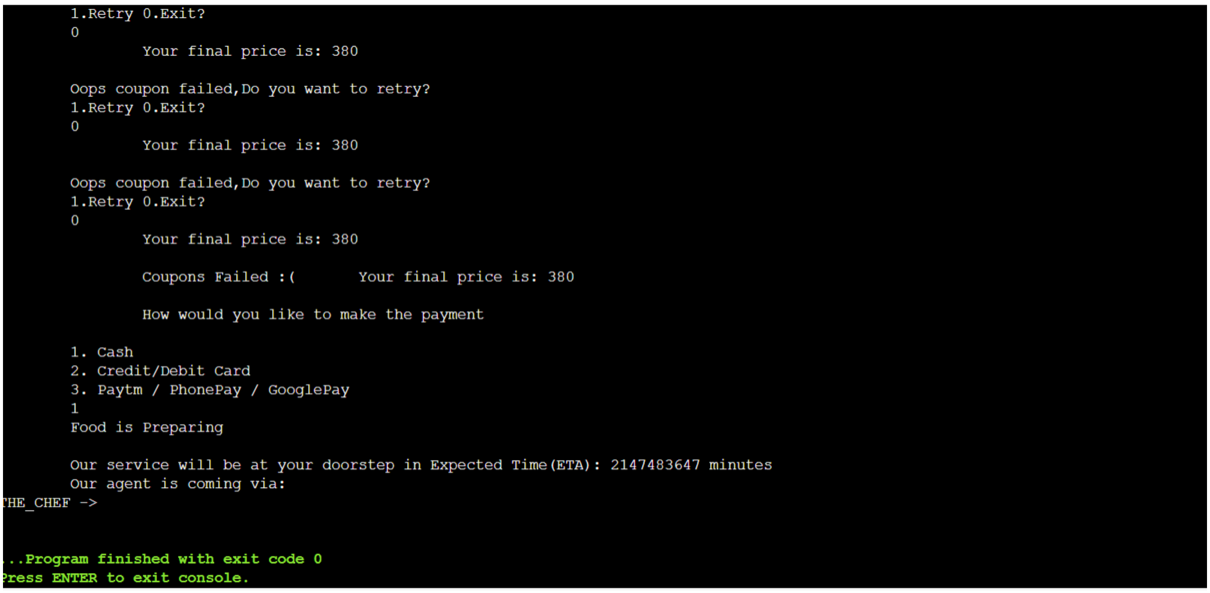
```
Tell us your choice of Restaurant
1
        Menu for THE_CHEF
1   . chicken tikka roll                                     140
2   . chilly potato                                          100
3   . chole                                                  70
4   . dal makhani                                            160
5   . french fries                                           70
6   . kadhai paneer                                          180
7   . paneer tikka                                           100
8   . paneer tikka roll                                      120
9   . rajma                                                  8
10  . shahi paneer                                           170
```



```

        Enter the number of items you want to add
                2
        Enter serial number and quantity
        1 2
        Enter serial number and quantity
        2 1

Your final Menu looks like:

        1   . chicken tikka roll                                     280
        2   . chilly potato                                          100

                Final Price to pay:                                       380

        Do you have a discount coupon
```



```
        Do you have a discount coupon
        no
        Oops coupon failed,Do you want to retry?
        1.Retry 0.Exit?
        0
                Your final price is: 380

        Oops coupon failed,Do you want to retry?
        1.Retry 0.Exit?
        0
                Your final price is: 380

        Oops coupon failed,Do you want to retry?
        1.Retry 0.Exit?
        0
                Your final price is: 380

                Coupons Failed :(       Your final price is: 380

                How would you like to make the payment

        1. Cash
        2. Credit/Debit Card
        3. Paytm / PhonePay / GooglePay
```



```
        1.Retry 0.Exit?
        0
                Your final price is: 380

        Oops coupon failed,Do you want to retry?
        1.Retry 0.Exit?
        0
                Your final price is: 380

        Oops coupon failed,Do you want to retry?
        1.Retry 0.Exit?
        0
                Your final price is: 380

                Coupons Failed :(       Your final price is: 380

                How would you like to make the payment

        1. Cash
        2. Credit/Debit Card
        3. Paytm / PhonePay / GooglePay
        1
        Food is Preparing

        Our service will be at your doorstep in Expected Time(ETA): 2147483647 minutes
        Our agent is coming via:
THE_CHEF ->


...Program finished with exit code 0
Press ENTER to exit console.
```