import java.util.\*;

import java.io.\*;

class Item

{

String name;

double price;

Item(String a,double b)

{

name=a;price=b;

}

}

class Cart

{

private ArrayList<Item>AL;

Cart()

{

AL=new ArrayList<Item>();

}

public void addItem(Item I)

{

AL.add(I);

}

public void removeItem(String a)

{

for(Item I:AL)

{

if(I.name.equals(a))

{

AL.remove(I);

break;

}

}

}

public double calculateTotalPrice()

{

double a=0;

for(Item I:AL)

a+=I.price;

return a;

}

}

class Main

{

public static void main(String[]args)

{

Scanner cat=new Scanner(System.in);

int a=Integer.parseInt(cat.nextLine());

Cart C=new Cart();

for(int i=0;i<a;i++)

C.addItem(new Item(cat.nextLine(),Double.parseDouble(cat.nextLine())));

int b=Integer.parseInt(cat.nextLine());

for(int i=0;i<b;i++)

C.removeItem(cat.nextLine());

System.out.println("Total Price after removing items: $"+C.calculateTotalPrice());

}

}

