附录

（环境）

附录1：distance.cpp

该程序用于计算两点间的最短路径，优化计算。

#include<bits/stdc++.h>

using namespace std;

typedef long long ll;

const int INF=0x3f3f3f3f;

const long long mod=100000007;

const double e=2.718281828459045;

const double pi=3.1415926535;

#define CK cout<<"OK\n";

struct Point{

string name;

int rank;

Point(string s="\_",int x=0):name(s),rank(x){}

}p[100];

double dis[100][100];

int cnt;

void init(){

cnt=0;

for(int i=0;i<100;i++){

p[i].name="\_";

p[i].rank=-1;

}

for(int i=0;i<100;i++){

for(int j=0;j<100;j++)dis[i][j]=1000000;

}

}

int search\_point(string tar){

int r=-1;

for(int i=0;i<cnt;i++){

if(tar==p[i].name){

r=i;

break;

}

}

return r;

}

int main(){

freopen("distance\_in.txt","r",stdin);

freopen("distance\_out.txt","w",stdout);

int N;

init();

scanf("%d",&N);

for(int i=0;i<N;i++){

string s1,s2;

double tmp;

cin>>s1>>s2>>tmp;

int r1,r2;

r1=search\_point(s1);

if(r1==-1){

p[cnt].rank=cnt;

p[cnt].name=s1;

r1=cnt;

cnt++;

}

r2=search\_point(s2);

if(r2==-1){

p[cnt].rank=cnt;

p[cnt].name=s2;

r2=cnt;

cnt++;

}

dis[r1][r2]=tmp;

dis[r2][r1]=tmp;

}

for(int i=0;i<cnt;i++)for(int j=0;j<cnt;j++)for(int k=0;k<cnt;k++)

if(dis[j][k]>dis[j][i]+dis[i][k]){

dis[j][k]=dis[j][i]+dis[i][k];

dis[k][j]=dis[j][i]+dis[i][k];

}

printf("%d\n",cnt);

for(int i=0;i<cnt;i++){

cout<<p[i].name<<"\t";

}

printf("\n");

for(int i=0;i<cnt;i++){

for(int j=0;j<cnt;j++)printf("%.1lf\t",dis[i][j]);

printf("\n");

}

return 0;

}

附录2：integrated1.cpp

#include<bits/stdc++.h>

using namespace std;

typedef long long ll;

const int INF=0x3f3f3f3f;

const long long mod=100000007;

const double e=2.718281828459045;

const double pi=3.1415926535;

#define CK cout<<"OK\n";

struct Point{

string name;

int rank;

Point(string s="\_",int x=0):name(s),rank(x){}

}p[87];

double dis[87][87]={

40.0,20.0,40.0,60.0,80.0,100.0,100.0,120.0,140.0,160.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,150.0,221.5,201.5,181.5,161.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,281.5,291.5,311.5,331.5,351.5,291.5,200.0,271.5,160.0,180.0,200.0,220.0,251.5,263.0,283.0,303.0,323.0,291.5,311.5,331.5,351.5,160.0,170.0,180.0,190.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,190.0,210.0,230.0,250.0,210.0,230.0,250.0,270.0,220.0,240.0,260.0,280.0,

20.0,40.0,20.0,40.0,60.0,80.0,80.0,100.0,120.0,140.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,271.5,180.0,251.5,140.0,160.0,180.0,200.0,231.5,243.0,263.0,283.0,303.0,271.5,291.5,311.5,331.5,140.0,150.0,160.0,170.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,200.0,220.0,240.0,260.0,

40.0,20.0,40.0,20.0,40.0,60.0,60.0,80.0,100.0,120.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

60.0,40.0,20.0,40.0,20.0,40.0,40.0,60.0,80.0,100.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,60.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,231.5,140.0,211.5,100.0,120.0,140.0,160.0,191.5,203.0,223.0,243.0,263.0,231.5,251.5,271.5,291.5,100.0,110.0,120.0,130.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,160.0,180.0,200.0,220.0,

80.0,60.0,40.0,20.0,40.0,20.0,20.0,40.0,60.0,80.0,100.0,80.0,60.0,40.0,40.0,60.0,80.0,100.0,40.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,70.0,141.5,121.5,101.5,81.5,161.5,171.5,191.5,211.5,231.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,211.5,120.0,191.5,80.0,100.0,120.0,140.0,171.5,183.0,203.0,223.0,243.0,211.5,231.5,251.5,271.5,80.0,90.0,100.0,110.0,90.0,110.0,130.0,150.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,140.0,160.0,180.0,200.0,

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100.0,80.0,60.0,40.0,20.0,40.0,40.0,60.0,80.0,100.0,80.0,60.0,40.0,20.0,20.0,40.0,60.0,80.0,20.0,100.0,80.0,60.0,40.0,40.0,60.0,80.0,100.0,50.0,121.5,101.5,81.5,61.5,141.5,151.5,171.5,191.5,211.5,161.5,171.5,191.5,211.5,231.5,181.5,191.5,211.5,231.5,251.5,191.5,100.0,171.5,60.0,80.0,100.0,120.0,151.5,163.0,183.0,203.0,223.0,191.5,211.5,231.5,251.5,60.0,70.0,80.0,90.0,70.0,90.0,110.0,130.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,110.0,130.0,150.0,170.0,120.0,140.0,160.0,180.0,

120.0,100.0,80.0,60.0,40.0,20.0,60.0,40.0,20.0,40.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

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160.0,140.0,120.0,100.0,80.0,60.0,100.0,40.0,20.0,40.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,150.0,221.5,201.5,181.5,161.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,281.5,291.5,311.5,331.5,351.5,291.5,200.0,271.5,160.0,180.0,200.0,220.0,251.5,263.0,283.0,303.0,323.0,291.5,311.5,331.5,351.5,160.0,170.0,180.0,190.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,190.0,210.0,230.0,250.0,210.0,230.0,250.0,270.0,220.0,240.0,260.0,280.0,

180.0,160.0,140.0,120.0,100.0,120.0,80.0,140.0,160.0,180.0,40.0,20.0,40.0,60.0,100.0,120.0,140.0,160.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,271.5,180.0,251.5,140.0,160.0,180.0,200.0,231.5,243.0,263.0,283.0,303.0,271.5,291.5,311.5,331.5,140.0,150.0,160.0,170.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,200.0,220.0,240.0,260.0,

160.0,140.0,120.0,100.0,80.0,100.0,60.0,120.0,140.0,160.0,20.0,40.0,20.0,40.0,80.0,100.0,120.0,140.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

140.0,120.0,100.0,80.0,60.0,80.0,40.0,100.0,120.0,140.0,40.0,20.0,40.0,20.0,60.0,80.0,100.0,120.0,60.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,231.5,140.0,211.5,100.0,120.0,140.0,160.0,191.5,203.0,223.0,243.0,263.0,231.5,251.5,271.5,291.5,100.0,110.0,120.0,130.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,160.0,180.0,200.0,220.0,

120.0,100.0,80.0,60.0,40.0,60.0,20.0,80.0,100.0,120.0,60.0,40.0,20.0,40.0,40.0,60.0,80.0,100.0,40.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,70.0,141.5,121.5,101.5,81.5,161.5,171.5,191.5,211.5,231.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,211.5,120.0,191.5,80.0,100.0,120.0,140.0,171.5,183.0,203.0,223.0,243.0,211.5,231.5,251.5,271.5,80.0,90.0,100.0,110.0,90.0,110.0,130.0,150.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,140.0,160.0,180.0,200.0,

120.0,100.0,80.0,60.0,40.0,60.0,20.0,80.0,100.0,120.0,100.0,80.0,60.0,40.0,40.0,20.0,40.0,60.0,40.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,70.0,141.5,121.5,101.5,81.5,161.5,171.5,191.5,211.5,231.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,211.5,120.0,191.5,80.0,100.0,120.0,140.0,171.5,183.0,203.0,223.0,243.0,211.5,231.5,251.5,271.5,80.0,90.0,100.0,110.0,90.0,110.0,130.0,150.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,140.0,160.0,180.0,200.0,

140.0,120.0,100.0,80.0,60.0,80.0,40.0,100.0,120.0,140.0,120.0,100.0,80.0,60.0,20.0,40.0,20.0,40.0,60.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,231.5,140.0,211.5,100.0,120.0,140.0,160.0,191.5,203.0,223.0,243.0,263.0,231.5,251.5,271.5,291.5,100.0,110.0,120.0,130.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,160.0,180.0,200.0,220.0,

160.0,140.0,120.0,100.0,80.0,100.0,60.0,120.0,140.0,160.0,140.0,120.0,100.0,80.0,40.0,20.0,40.0,20.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

180.0,160.0,140.0,120.0,100.0,120.0,80.0,140.0,160.0,180.0,160.0,140.0,120.0,100.0,60.0,40.0,20.0,40.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,271.5,180.0,251.5,140.0,160.0,180.0,200.0,231.5,243.0,263.0,283.0,303.0,271.5,291.5,311.5,331.5,140.0,150.0,160.0,170.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,200.0,220.0,240.0,260.0,

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291.5,271.5,251.5,231.5,211.5,231.5,191.5,251.5,271.5,291.5,271.5,251.5,231.5,211.5,211.5,231.5,251.5,271.5,171.5,251.5,231.5,211.5,191.5,191.5,211.5,231.5,251.5,141.5,70.0,90.0,110.0,130.0,50.0,40.0,20.0,40.0,20.0,70.0,80.0,100.0,120.0,140.0,90.0,100.0,120.0,140.0,160.0,100.0,191.5,263.0,151.5,171.5,191.5,211.5,243.0,254.5,274.5,294.5,314.5,283.0,303.0,323.0,343.0,151.5,161.5,171.5,181.5,161.5,181.5,201.5,221.5,181.5,201.5,221.5,241.5,181.5,201.5,221.5,241.5,201.5,221.5,241.5,261.5,211.5,231.5,251.5,271.5,

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270.0,250.0,230.0,210.0,190.0,210.0,170.0,230.0,250.0,270.0,250.0,230.0,210.0,190.0,190.0,210.0,230.0,250.0,150.0,230.0,210.0,190.0,170.0,170.0,190.0,210.0,230.0,120.0,191.5,171.5,151.5,131.5,211.5,221.5,241.5,261.5,281.5,211.5,221.5,241.5,261.5,281.5,191.5,201.5,221.5,241.5,261.5,181.5,90.0,201.5,130.0,150.0,170.0,190.0,221.5,233.0,253.0,273.0,293.0,221.5,241.5,261.5,281.5,110.0,100.0,90.0,80.0,120.0,140.0,160.0,180.0,120.0,140.0,160.0,180.0,100.0,120.0,140.0,160.0,60.0,40.0,20.0,40.0,110.0,130.0,150.0,170.0,

220.0,200.0,180.0,160.0,140.0,160.0,120.0,180.0,200.0,220.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,70.0,141.5,121.5,101.5,81.5,161.5,171.5,191.5,211.5,231.5,141.5,151.5,171.5,191.5,211.5,121.5,131.5,151.5,171.5,191.5,111.5,20.0,131.5,80.0,100.0,120.0,140.0,151.5,163.0,183.0,203.0,223.0,151.5,171.5,191.5,211.5,60.0,50.0,40.0,30.0,70.0,90.0,110.0,130.0,70.0,90.0,110.0,130.0,50.0,70.0,90.0,110.0,50.0,70.0,90.0,110.0,40.0,20.0,40.0,60.0,

240.0,220.0,200.0,180.0,160.0,180.0,140.0,200.0,220.0,240.0,220.0,200.0,180.0,160.0,160.0,180.0,200.0,220.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,161.5,171.5,191.5,211.5,231.5,141.5,151.5,171.5,191.5,211.5,131.5,40.0,151.5,100.0,120.0,140.0,160.0,171.5,183.0,203.0,223.0,243.0,171.5,191.5,211.5,231.5,80.0,70.0,60.0,50.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,70.0,90.0,110.0,130.0,70.0,90.0,110.0,130.0,20.0,40.0,20.0,40.0,

260.0,240.0,220.0,200.0,180.0,200.0,160.0,220.0,240.0,260.0,240.0,220.0,200.0,180.0,180.0,200.0,220.0,240.0,140.0,220.0,200.0,180.0,160.0,160.0,180.0,200.0,220.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,181.5,191.5,211.5,231.5,251.5,161.5,171.5,191.5,211.5,231.5,151.5,60.0,171.5,120.0,140.0,160.0,180.0,191.5,203.0,223.0,243.0,263.0,191.5,211.5,231.5,251.5,100.0,90.0,80.0,70.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,40.0,20.0,40.0,20.0,

280.0,260.0,240.0,220.0,200.0,220.0,180.0,240.0,260.0,280.0,260.0,240.0,220.0,200.0,200.0,220.0,240.0,260.0,160.0,240.0,220.0,200.0,180.0,180.0,200.0,220.0,240.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,201.5,211.5,231.5,251.5,271.5,181.5,191.5,211.5,231.5,251.5,171.5,80.0,191.5,140.0,160.0,180.0,200.0,211.5,223.0,243.0,263.0,283.0,211.5,231.5,251.5,271.5,120.0,110.0,100.0,90.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,60.0,40.0,20.0,40.0

};

int N;

void init1(){

p[0].name="III-1";

p[0].rank=0;

p[1].name="III-2";

p[1].rank=1;

p[2].name="III-3";

p[2].rank=2;

p[3].name="III-4";

p[3].rank=3;

p[4].name="A";

p[4].rank=4;

p[5].name="III-5";

p[5].rank=5;

p[6].name="B";

p[6].rank=6;

p[7].name="III-6";

p[7].rank=7;

p[8].name="III-7";

p[8].rank=8;

p[9].name="III-8";

p[9].rank=9;

p[10].name="III-9";

p[10].rank=10;

p[11].name="III-10";

p[11].rank=11;

p[12].name="III-11";

p[12].rank=12;

p[13].name="III-12";

p[13].rank=13;

p[14].name="III-13";

p[14].rank=14;

p[15].name="III-14";

p[15].rank=15;

p[16].name="III-15";

p[16].rank=16;

p[17].name="III-16";

p[17].rank=17;

p[18].name="C";

p[18].rank=18;

p[19].name="III-17";

p[19].rank=19;

p[20].name="III-18";

p[20].rank=20;

p[21].name="III-19";

p[21].rank=21;

p[22].name="III-20";

p[22].rank=22;

p[23].name="III-21";

p[23].rank=23;

p[24].name="III-22";

p[24].rank=24;

p[25].name="III-23";

p[25].rank=25;

p[26].name="III-24";

p[26].rank=26;

p[27].name="D";

p[27].rank=27;

p[28].name="I-1";

p[28].rank=28;

p[29].name="I-2";

p[29].rank=29;

p[30].name="I-3";

p[30].rank=30;

p[31].name="I-4";

p[31].rank=31;

p[32].name="E";

p[32].rank=32;

p[33].name="I-5";

p[33].rank=33;

p[34].name="I-6";

p[34].rank=34;

p[35].name="I-7";

p[35].rank=35;

p[36].name="I-8";

p[36].rank=36;

p[37].name="I";

p[37].rank=37;

p[38].name="I-13";

p[38].rank=38;

p[39].name="I-14";

p[39].rank=39;

p[40].name="I-15";

p[40].rank=40;

p[41].name="I-16";

p[41].rank=41;

p[42].name="M";

p[42].rank=42;

p[43].name="I-21";

p[43].rank=43;

p[44].name="I-22";

p[44].rank=44;

p[45].name="I-23";

p[45].rank=45;

p[46].name="I-24";

p[46].rank=46;

p[47].name="O";

p[47].rank=47;

p[48].name="N";

p[48].rank=48;

p[49].name="L";

p[49].rank=49;

p[50].name="II-1";

p[50].rank=50;

p[51].name="II-2";

p[51].rank=51;

p[52].name="II-3";

p[52].rank=52;

p[53].name="II-4";

p[53].rank=53;

p[54].name="H";

p[54].rank=54;

p[55].name="II-12";

p[55].rank=55;

p[56].name="II-11";

p[56].rank=56;

p[57].name="II-10";

p[57].rank=57;

p[58].name="II-9";

p[58].rank=58;

p[59].name="II-20";

p[59].rank=59;

p[60].name="II-19";

p[60].rank=60;

p[61].name="II-18";

p[61].rank=61;

p[62].name="II-17";

p[62].rank=62;

p[63].name="F";

p[63].rank=63;

p[64].name="G";

p[64].rank=64;

p[65].name="J";

p[65].rank=65;

p[66].name="K";

p[66].rank=66;

p[67].name="II-5";

p[67].rank=67;

p[68].name="II-6";

p[68].rank=68;

p[69].name="II-7";

p[69].rank=69;

p[70].name="II-8";

p[70].rank=70;

p[71].name="I-12";

p[71].rank=71;

p[72].name="I-11";

p[72].rank=72;

p[73].name="I-10";

p[73].rank=73;

p[74].name="I-9";

p[74].rank=74;

p[75].name="II-13";

p[75].rank=75;

p[76].name="II-14";

p[76].rank=76;

p[77].name="II-15";

p[77].rank=77;

p[78].name="II-16";

p[78].rank=78;

p[79].name="I-20";

p[79].rank=79;

p[80].name="I-19";

p[80].rank=80;

p[81].name="I-18";

p[81].rank=81;

p[82].name="I-17";

p[82].rank=82;

p[83].name="II-21";

p[83].rank=83;

p[84].name="II-22";

p[84].rank=84;

p[85].name="II-23";

p[85].rank=85;

p[86].name="II-24";

p[86].rank=86;

N=87;

}

int search\_point(string tar){

int r=-1;

for(int i=0;i<N;i++){

if(tar==p[i].name){

r=i;

break;

}

}

return r;

}

struct Task{

string name;

double time;

friend bool operator<(const Task &x,const Task &y){

return x.time<y.time;

}

int rank;

}t[100];

int numT;

struct Car{

vector<int> task;

}c[10];

int numC;

void init(){

numT=0;

numC=0;

for(int i=0;i<9;i++){

c[i].task.clear();

}

}

int main(){

init1();

init();

freopen("task1\_in.txt","r",stdin);

freopen("task1\_out.txt","w",stdout);

cin>>numC>>numT;

for(int i=0;i<numT;i++){

cin>>t[i].rank>>t[i].name>>t[i].time;

}

sort(t,t+numT);

return 0;

}

附录3：t3.cpp

该程序用于第三题改变速度的计算。

#include<bits/stdc++.h>

using namespace std;

typedef long long ll;

const int INF=0x3f3f3f3f;

const long long mod=100000007;

const double e=2.718281828459045;

const double pi=3.1415926535;

#define CK cout<<"OK\n";

struct Point{

string name;

int rank;

Point(string s="\_",int x=0):name(s),rank(x){}

}p[87];

double dis[87][87]={

40.0,20.0,40.0,60.0,80.0,100.0,100.0,120.0,140.0,160.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,150.0,221.5,201.5,181.5,161.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,281.5,291.5,311.5,331.5,351.5,291.5,200.0,271.5,160.0,180.0,200.0,220.0,251.5,263.0,283.0,303.0,323.0,291.5,311.5,331.5,351.5,160.0,170.0,180.0,190.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,190.0,210.0,230.0,250.0,210.0,230.0,250.0,270.0,220.0,240.0,260.0,280.0,

20.0,40.0,20.0,40.0,60.0,80.0,80.0,100.0,120.0,140.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,271.5,180.0,251.5,140.0,160.0,180.0,200.0,231.5,243.0,263.0,283.0,303.0,271.5,291.5,311.5,331.5,140.0,150.0,160.0,170.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,200.0,220.0,240.0,260.0,

40.0,20.0,40.0,20.0,40.0,60.0,60.0,80.0,100.0,120.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

60.0,40.0,20.0,40.0,20.0,40.0,40.0,60.0,80.0,100.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,60.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,231.5,140.0,211.5,100.0,120.0,140.0,160.0,191.5,203.0,223.0,243.0,263.0,231.5,251.5,271.5,291.5,100.0,110.0,120.0,130.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,160.0,180.0,200.0,220.0,

80.0,60.0,40.0,20.0,40.0,20.0,20.0,40.0,60.0,80.0,100.0,80.0,60.0,40.0,40.0,60.0,80.0,100.0,40.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,70.0,141.5,121.5,101.5,81.5,161.5,171.5,191.5,211.5,231.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,211.5,120.0,191.5,80.0,100.0,120.0,140.0,171.5,183.0,203.0,223.0,243.0,211.5,231.5,251.5,271.5,80.0,90.0,100.0,110.0,90.0,110.0,130.0,150.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,140.0,160.0,180.0,200.0,

100.0,80.0,60.0,40.0,20.0,40.0,40.0,20.0,40.0,60.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,60.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,231.5,140.0,211.5,100.0,120.0,140.0,160.0,191.5,203.0,223.0,243.0,263.0,231.5,251.5,271.5,291.5,100.0,110.0,120.0,130.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,160.0,180.0,200.0,220.0,

100.0,80.0,60.0,40.0,20.0,40.0,40.0,60.0,80.0,100.0,80.0,60.0,40.0,20.0,20.0,40.0,60.0,80.0,20.0,100.0,80.0,60.0,40.0,40.0,60.0,80.0,100.0,50.0,121.5,101.5,81.5,61.5,141.5,151.5,171.5,191.5,211.5,161.5,171.5,191.5,211.5,231.5,181.5,191.5,211.5,231.5,251.5,191.5,100.0,171.5,60.0,80.0,100.0,120.0,151.5,163.0,183.0,203.0,223.0,191.5,211.5,231.5,251.5,60.0,70.0,80.0,90.0,70.0,90.0,110.0,130.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,110.0,130.0,150.0,170.0,120.0,140.0,160.0,180.0,

120.0,100.0,80.0,60.0,40.0,20.0,60.0,40.0,20.0,40.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

140.0,120.0,100.0,80.0,60.0,40.0,80.0,20.0,40.0,20.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,271.5,180.0,251.5,140.0,160.0,180.0,200.0,231.5,243.0,263.0,283.0,303.0,271.5,291.5,311.5,331.5,140.0,150.0,160.0,170.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,200.0,220.0,240.0,260.0,

160.0,140.0,120.0,100.0,80.0,60.0,100.0,40.0,20.0,40.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,150.0,221.5,201.5,181.5,161.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,281.5,291.5,311.5,331.5,351.5,291.5,200.0,271.5,160.0,180.0,200.0,220.0,251.5,263.0,283.0,303.0,323.0,291.5,311.5,331.5,351.5,160.0,170.0,180.0,190.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,190.0,210.0,230.0,250.0,210.0,230.0,250.0,270.0,220.0,240.0,260.0,280.0,

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190.0,170.0,150.0,130.0,110.0,130.0,90.0,150.0,170.0,190.0,170.0,150.0,130.0,110.0,110.0,130.0,150.0,170.0,70.0,150.0,130.0,110.0,90.0,90.0,110.0,130.0,150.0,40.0,111.5,91.5,71.5,51.5,131.5,141.5,161.5,181.5,201.5,151.5,161.5,181.5,201.5,221.5,151.5,161.5,181.5,201.5,221.5,141.5,50.0,161.5,50.0,70.0,90.0,110.0,141.5,153.0,173.0,193.0,213.0,181.5,201.5,221.5,241.5,30.0,20.0,30.0,40.0,40.0,60.0,80.0,100.0,40.0,20.0,40.0,60.0,40.0,60.0,80.0,100.0,60.0,80.0,100.0,120.0,70.0,90.0,110.0,130.0,

210.0,190.0,170.0,150.0,130.0,150.0,110.0,170.0,190.0,210.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,90.0,170.0,150.0,130.0,110.0,110.0,130.0,150.0,170.0,60.0,131.5,111.5,91.5,71.5,151.5,161.5,181.5,201.5,221.5,171.5,181.5,201.5,221.5,241.5,171.5,181.5,201.5,221.5,241.5,161.5,70.0,181.5,70.0,90.0,110.0,130.0,161.5,173.0,193.0,213.0,233.0,201.5,221.5,241.5,261.5,50.0,40.0,50.0,60.0,60.0,80.0,100.0,120.0,20.0,40.0,20.0,40.0,60.0,80.0,100.0,120.0,80.0,100.0,120.0,140.0,90.0,110.0,130.0,150.0,

230.0,210.0,190.0,170.0,150.0,170.0,130.0,190.0,210.0,230.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,110.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,80.0,151.5,131.5,111.5,91.5,171.5,181.5,201.5,221.5,241.5,191.5,201.5,221.5,241.5,261.5,191.5,201.5,221.5,241.5,261.5,181.5,90.0,201.5,90.0,110.0,130.0,150.0,181.5,193.0,213.0,233.0,253.0,221.5,241.5,261.5,281.5,70.0,60.0,70.0,80.0,80.0,100.0,120.0,140.0,40.0,20.0,40.0,20.0,80.0,100.0,120.0,140.0,100.0,120.0,140.0,160.0,110.0,130.0,150.0,170.0,

250.0,230.0,210.0,190.0,170.0,190.0,150.0,210.0,230.0,250.0,230.0,210.0,190.0,170.0,170.0,190.0,210.0,230.0,130.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,100.0,171.5,151.5,131.5,111.5,191.5,201.5,221.5,241.5,261.5,211.5,221.5,241.5,261.5,281.5,211.5,221.5,241.5,261.5,281.5,201.5,110.0,221.5,110.0,130.0,150.0,170.0,201.5,213.0,233.0,253.0,273.0,241.5,261.5,281.5,301.5,90.0,80.0,90.0,100.0,100.0,120.0,140.0,160.0,60.0,40.0,20.0,40.0,100.0,120.0,140.0,160.0,120.0,140.0,160.0,180.0,130.0,150.0,170.0,190.0,

190.0,170.0,150.0,130.0,110.0,130.0,90.0,150.0,170.0,190.0,170.0,150.0,130.0,110.0,110.0,130.0,150.0,170.0,70.0,150.0,130.0,110.0,90.0,90.0,110.0,130.0,150.0,40.0,111.5,91.5,71.5,51.5,131.5,141.5,161.5,181.5,201.5,151.5,161.5,181.5,201.5,221.5,131.5,141.5,161.5,181.5,201.5,121.5,30.0,141.5,50.0,70.0,90.0,110.0,141.5,153.0,173.0,193.0,213.0,161.5,181.5,201.5,221.5,30.0,20.0,10.0,20.0,40.0,60.0,80.0,100.0,40.0,60.0,80.0,100.0,20.0,20.0,40.0,60.0,40.0,60.0,80.0,100.0,50.0,70.0,90.0,110.0,

210.0,190.0,170.0,150.0,130.0,150.0,110.0,170.0,190.0,210.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,90.0,170.0,150.0,130.0,110.0,110.0,130.0,150.0,170.0,60.0,131.5,111.5,91.5,71.5,151.5,161.5,181.5,201.5,221.5,171.5,181.5,201.5,221.5,241.5,151.5,161.5,181.5,201.5,221.5,141.5,50.0,161.5,70.0,90.0,110.0,130.0,161.5,173.0,193.0,213.0,233.0,181.5,201.5,221.5,241.5,50.0,40.0,30.0,40.0,60.0,80.0,100.0,120.0,60.0,80.0,100.0,120.0,20.0,40.0,20.0,40.0,60.0,80.0,100.0,120.0,70.0,90.0,110.0,130.0,

230.0,210.0,190.0,170.0,150.0,170.0,130.0,190.0,210.0,230.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,110.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,80.0,151.5,131.5,111.5,91.5,171.5,181.5,201.5,221.5,241.5,191.5,201.5,221.5,241.5,261.5,171.5,181.5,201.5,221.5,241.5,161.5,70.0,181.5,90.0,110.0,130.0,150.0,181.5,193.0,213.0,233.0,253.0,201.5,221.5,241.5,261.5,70.0,60.0,50.0,60.0,80.0,100.0,120.0,140.0,80.0,100.0,120.0,140.0,40.0,20.0,40.0,20.0,80.0,100.0,120.0,140.0,90.0,110.0,130.0,150.0,

250.0,230.0,210.0,190.0,170.0,190.0,150.0,210.0,230.0,250.0,230.0,210.0,190.0,170.0,170.0,190.0,210.0,230.0,130.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,100.0,171.5,151.5,131.5,111.5,191.5,201.5,221.5,241.5,261.5,211.5,221.5,241.5,261.5,281.5,191.5,201.5,221.5,241.5,261.5,181.5,90.0,201.5,110.0,130.0,150.0,170.0,201.5,213.0,233.0,253.0,273.0,221.5,241.5,261.5,281.5,90.0,80.0,70.0,80.0,100.0,120.0,140.0,160.0,100.0,120.0,140.0,160.0,60.0,40.0,20.0,40.0,100.0,120.0,140.0,160.0,110.0,130.0,150.0,170.0,

210.0,190.0,170.0,150.0,130.0,150.0,110.0,170.0,190.0,210.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,90.0,170.0,150.0,130.0,110.0,110.0,130.0,150.0,170.0,60.0,131.5,111.5,91.5,71.5,151.5,161.5,181.5,201.5,221.5,151.5,161.5,181.5,201.5,221.5,131.5,141.5,161.5,181.5,201.5,121.5,30.0,141.5,70.0,90.0,110.0,130.0,161.5,173.0,193.0,213.0,233.0,161.5,181.5,201.5,221.5,50.0,40.0,30.0,20.0,60.0,80.0,100.0,120.0,60.0,80.0,100.0,120.0,40.0,60.0,80.0,100.0,40.0,20.0,40.0,60.0,50.0,70.0,90.0,110.0,

230.0,210.0,190.0,170.0,150.0,170.0,130.0,190.0,210.0,230.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,110.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,80.0,151.5,131.5,111.5,91.5,171.5,181.5,201.5,221.5,241.5,171.5,181.5,201.5,221.5,241.5,151.5,161.5,181.5,201.5,221.5,141.5,50.0,161.5,90.0,110.0,130.0,150.0,181.5,193.0,213.0,233.0,253.0,181.5,201.5,221.5,241.5,70.0,60.0,50.0,40.0,80.0,100.0,120.0,140.0,80.0,100.0,120.0,140.0,60.0,80.0,100.0,120.0,20.0,40.0,20.0,40.0,70.0,90.0,110.0,130.0,

250.0,230.0,210.0,190.0,170.0,190.0,150.0,210.0,230.0,250.0,230.0,210.0,190.0,170.0,170.0,190.0,210.0,230.0,130.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,100.0,171.5,151.5,131.5,111.5,191.5,201.5,221.5,241.5,261.5,191.5,201.5,221.5,241.5,261.5,171.5,181.5,201.5,221.5,241.5,161.5,70.0,181.5,110.0,130.0,150.0,170.0,201.5,213.0,233.0,253.0,273.0,201.5,221.5,241.5,261.5,90.0,80.0,70.0,60.0,100.0,120.0,140.0,160.0,100.0,120.0,140.0,160.0,80.0,100.0,120.0,140.0,40.0,20.0,40.0,20.0,90.0,110.0,130.0,150.0,

270.0,250.0,230.0,210.0,190.0,210.0,170.0,230.0,250.0,270.0,250.0,230.0,210.0,190.0,190.0,210.0,230.0,250.0,150.0,230.0,210.0,190.0,170.0,170.0,190.0,210.0,230.0,120.0,191.5,171.5,151.5,131.5,211.5,221.5,241.5,261.5,281.5,211.5,221.5,241.5,261.5,281.5,191.5,201.5,221.5,241.5,261.5,181.5,90.0,201.5,130.0,150.0,170.0,190.0,221.5,233.0,253.0,273.0,293.0,221.5,241.5,261.5,281.5,110.0,100.0,90.0,80.0,120.0,140.0,160.0,180.0,120.0,140.0,160.0,180.0,100.0,120.0,140.0,160.0,60.0,40.0,20.0,40.0,110.0,130.0,150.0,170.0,

220.0,200.0,180.0,160.0,140.0,160.0,120.0,180.0,200.0,220.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,70.0,141.5,121.5,101.5,81.5,161.5,171.5,191.5,211.5,231.5,141.5,151.5,171.5,191.5,211.5,121.5,131.5,151.5,171.5,191.5,111.5,20.0,131.5,80.0,100.0,120.0,140.0,151.5,163.0,183.0,203.0,223.0,151.5,171.5,191.5,211.5,60.0,50.0,40.0,30.0,70.0,90.0,110.0,130.0,70.0,90.0,110.0,130.0,50.0,70.0,90.0,110.0,50.0,70.0,90.0,110.0,40.0,20.0,40.0,60.0,

240.0,220.0,200.0,180.0,160.0,180.0,140.0,200.0,220.0,240.0,220.0,200.0,180.0,160.0,160.0,180.0,200.0,220.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,161.5,171.5,191.5,211.5,231.5,141.5,151.5,171.5,191.5,211.5,131.5,40.0,151.5,100.0,120.0,140.0,160.0,171.5,183.0,203.0,223.0,243.0,171.5,191.5,211.5,231.5,80.0,70.0,60.0,50.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,70.0,90.0,110.0,130.0,70.0,90.0,110.0,130.0,20.0,40.0,20.0,40.0,

260.0,240.0,220.0,200.0,180.0,200.0,160.0,220.0,240.0,260.0,240.0,220.0,200.0,180.0,180.0,200.0,220.0,240.0,140.0,220.0,200.0,180.0,160.0,160.0,180.0,200.0,220.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,181.5,191.5,211.5,231.5,251.5,161.5,171.5,191.5,211.5,231.5,151.5,60.0,171.5,120.0,140.0,160.0,180.0,191.5,203.0,223.0,243.0,263.0,191.5,211.5,231.5,251.5,100.0,90.0,80.0,70.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,40.0,20.0,40.0,20.0,

280.0,260.0,240.0,220.0,200.0,220.0,180.0,240.0,260.0,280.0,260.0,240.0,220.0,200.0,200.0,220.0,240.0,260.0,160.0,240.0,220.0,200.0,180.0,180.0,200.0,220.0,240.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,201.5,211.5,231.5,251.5,271.5,181.5,191.5,211.5,231.5,251.5,171.5,80.0,191.5,140.0,160.0,180.0,200.0,211.5,223.0,243.0,263.0,283.0,211.5,231.5,251.5,271.5,120.0,110.0,100.0,90.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,60.0,40.0,20.0,40.0

};

int N;

void init1(){

p[0].name="III-1";

p[0].rank=0;

p[1].name="III-2";

p[1].rank=1;

p[2].name="III-3";

p[2].rank=2;

p[3].name="III-4";

p[3].rank=3;

p[4].name="A";

p[4].rank=4;

p[5].name="III-5";

p[5].rank=5;

p[6].name="B";

p[6].rank=6;

p[7].name="III-6";

p[7].rank=7;

p[8].name="III-7";

p[8].rank=8;

p[9].name="III-8";

p[9].rank=9;

p[10].name="III-9";

p[10].rank=10;

p[11].name="III-10";

p[11].rank=11;

p[12].name="III-11";

p[12].rank=12;

p[13].name="III-12";

p[13].rank=13;

p[14].name="III-13";

p[14].rank=14;

p[15].name="III-14";

p[15].rank=15;

p[16].name="III-15";

p[16].rank=16;

p[17].name="III-16";

p[17].rank=17;

p[18].name="C";

p[18].rank=18;

p[19].name="III-17";

p[19].rank=19;

p[20].name="III-18";

p[20].rank=20;

p[21].name="III-19";

p[21].rank=21;

p[22].name="III-20";

p[22].rank=22;

p[23].name="III-21";

p[23].rank=23;

p[24].name="III-22";

p[24].rank=24;

p[25].name="III-23";

p[25].rank=25;

p[26].name="III-24";

p[26].rank=26;

p[27].name="D";

p[27].rank=27;

p[28].name="I-1";

p[28].rank=28;

p[29].name="I-2";

p[29].rank=29;

p[30].name="I-3";

p[30].rank=30;

p[31].name="I-4";

p[31].rank=31;

p[32].name="E";

p[32].rank=32;

p[33].name="I-5";

p[33].rank=33;

p[34].name="I-6";

p[34].rank=34;

p[35].name="I-7";

p[35].rank=35;

p[36].name="I-8";

p[36].rank=36;

p[37].name="I";

p[37].rank=37;

p[38].name="I-13";

p[38].rank=38;

p[39].name="I-14";

p[39].rank=39;

p[40].name="I-15";

p[40].rank=40;

p[41].name="I-16";

p[41].rank=41;

p[42].name="M";

p[42].rank=42;

p[43].name="I-21";

p[43].rank=43;

p[44].name="I-22";

p[44].rank=44;

p[45].name="I-23";

p[45].rank=45;

p[46].name="I-24";

p[46].rank=46;

p[47].name="O";

p[47].rank=47;

p[48].name="N";

p[48].rank=48;

p[49].name="L";

p[49].rank=49;

p[50].name="II-1";

p[50].rank=50;

p[51].name="II-2";

p[51].rank=51;

p[52].name="II-3";

p[52].rank=52;

p[53].name="II-4";

p[53].rank=53;

p[54].name="H";

p[54].rank=54;

p[55].name="II-12";

p[55].rank=55;

p[56].name="II-11";

p[56].rank=56;

p[57].name="II-10";

p[57].rank=57;

p[58].name="II-9";

p[58].rank=58;

p[59].name="II-20";

p[59].rank=59;

p[60].name="II-19";

p[60].rank=60;

p[61].name="II-18";

p[61].rank=61;

p[62].name="II-17";

p[62].rank=62;

p[63].name="F";

p[63].rank=63;

p[64].name="G";

p[64].rank=64;

p[65].name="J";

p[65].rank=65;

p[66].name="K";

p[66].rank=66;

p[67].name="II-5";

p[67].rank=67;

p[68].name="II-6";

p[68].rank=68;

p[69].name="II-7";

p[69].rank=69;

p[70].name="II-8";

p[70].rank=70;

p[71].name="I-12";

p[71].rank=71;

p[72].name="I-11";

p[72].rank=72;

p[73].name="I-10";

p[73].rank=73;

p[74].name="I-9";

p[74].rank=74;

p[75].name="II-13";

p[75].rank=75;

p[76].name="II-14";

p[76].rank=76;

p[77].name="II-15";

p[77].rank=77;

p[78].name="II-16";

p[78].rank=78;

p[79].name="I-20";

p[79].rank=79;

p[80].name="I-19";

p[80].rank=80;

p[81].name="I-18";

p[81].rank=81;

p[82].name="I-17";

p[82].rank=82;

p[83].name="II-21";

p[83].rank=83;

p[84].name="II-22";

p[84].rank=84;

p[85].name="II-23";

p[85].rank=85;

p[86].name="II-24";

p[86].rank=86;

N=87;

}

int search\_point(string tar){

int r=-1;

for(int i=0;i<N;i++){

if(tar==p[i].name){

r=i;

break;

}

}

return r;

}

int main(){

init1();

double v=5;

freopen("t3\_in.txt","r",stdin);

freopen("t3\_out.txt","w",stdout);

for(;v<=10;v+=0.1){

for(int I=0;I<6;I++){

int num;

cin>>num;

int r[10];

r[0]=search\_point("D");

for(int i=1;i<=num;i++){

string tar;

cin>>tar;

r[i]=search\_point(tar);

}

double pre=0,real\_pre; //real pre表示实际上倒达d的时间（由于速度改变，到达d的时间也会改变）

double W=0;

double b[10];

cin>>pre;

real\_pre=(pre-3\*num)\*5/v+3\*num;

pre=real\_pre;

double a[10];

for(int i=1;i<=num;i++){

cin>>a[i];

}

b[0]=pre-3;

for(int i=1;i<=num;i++){

b[i]=b[i-1]+3+dis[ r[i] ][ r[i-1] ]/v;

if(b[i]<a[i])b[i]=a[i]; //无法贮存

W+=b[i]-a[i];

}

for(int i=1;i<=num;i++){

printf("%.1lf\t",b[i]);

}

cout<<"\n";

printf("%.1lf\n\n\n",W);

}

printf("-------------------------------\n");

}

return 0;

}

附录4：task1.cpp

该程序用于第三题计算任务一。

#include<bits/stdc++.h>

using namespace std;

typedef long long ll;

const int INF=0x3f3f3f3f;

const long long mod=100000007;

const double e=2.718281828459045;

const double pi=3.1415926535;

#define CK cout<<"OK\n";

struct Point{

string name;

int rank;

Point(string s="\_",int x=0):name(s),rank(x){}

}p[87];

double dis[87][87]={

40.0,20.0,40.0,60.0,80.0,100.0,100.0,120.0,140.0,160.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,150.0,221.5,201.5,181.5,161.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,281.5,291.5,311.5,331.5,351.5,291.5,200.0,271.5,160.0,180.0,200.0,220.0,251.5,263.0,283.0,303.0,323.0,291.5,311.5,331.5,351.5,160.0,170.0,180.0,190.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,190.0,210.0,230.0,250.0,210.0,230.0,250.0,270.0,220.0,240.0,260.0,280.0,

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240.0,220.0,200.0,180.0,160.0,180.0,140.0,200.0,220.0,240.0,220.0,200.0,180.0,160.0,160.0,180.0,200.0,220.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,161.5,171.5,191.5,211.5,231.5,141.5,151.5,171.5,191.5,211.5,131.5,40.0,151.5,100.0,120.0,140.0,160.0,171.5,183.0,203.0,223.0,243.0,171.5,191.5,211.5,231.5,80.0,70.0,60.0,50.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,70.0,90.0,110.0,130.0,70.0,90.0,110.0,130.0,20.0,40.0,20.0,40.0,

260.0,240.0,220.0,200.0,180.0,200.0,160.0,220.0,240.0,260.0,240.0,220.0,200.0,180.0,180.0,200.0,220.0,240.0,140.0,220.0,200.0,180.0,160.0,160.0,180.0,200.0,220.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,181.5,191.5,211.5,231.5,251.5,161.5,171.5,191.5,211.5,231.5,151.5,60.0,171.5,120.0,140.0,160.0,180.0,191.5,203.0,223.0,243.0,263.0,191.5,211.5,231.5,251.5,100.0,90.0,80.0,70.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,40.0,20.0,40.0,20.0,

280.0,260.0,240.0,220.0,200.0,220.0,180.0,240.0,260.0,280.0,260.0,240.0,220.0,200.0,200.0,220.0,240.0,260.0,160.0,240.0,220.0,200.0,180.0,180.0,200.0,220.0,240.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,201.5,211.5,231.5,251.5,271.5,181.5,191.5,211.5,231.5,251.5,171.5,80.0,191.5,140.0,160.0,180.0,200.0,211.5,223.0,243.0,263.0,283.0,211.5,231.5,251.5,271.5,120.0,110.0,100.0,90.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,60.0,40.0,20.0,40.0

};

int N;

void init1(){

p[0].name="III-1";

p[0].rank=0;

p[1].name="III-2";

p[1].rank=1;

p[2].name="III-3";

p[2].rank=2;

p[3].name="III-4";

p[3].rank=3;

p[4].name="A";

p[4].rank=4;

p[5].name="III-5";

p[5].rank=5;

p[6].name="B";

p[6].rank=6;

p[7].name="III-6";

p[7].rank=7;

p[8].name="III-7";

p[8].rank=8;

p[9].name="III-8";

p[9].rank=9;

p[10].name="III-9";

p[10].rank=10;

p[11].name="III-10";

p[11].rank=11;

p[12].name="III-11";

p[12].rank=12;

p[13].name="III-12";

p[13].rank=13;

p[14].name="III-13";

p[14].rank=14;

p[15].name="III-14";

p[15].rank=15;

p[16].name="III-15";

p[16].rank=16;

p[17].name="III-16";

p[17].rank=17;

p[18].name="C";

p[18].rank=18;

p[19].name="III-17";

p[19].rank=19;

p[20].name="III-18";

p[20].rank=20;

p[21].name="III-19";

p[21].rank=21;

p[22].name="III-20";

p[22].rank=22;

p[23].name="III-21";

p[23].rank=23;

p[24].name="III-22";

p[24].rank=24;

p[25].name="III-23";

p[25].rank=25;

p[26].name="III-24";

p[26].rank=26;

p[27].name="D";

p[27].rank=27;

p[28].name="I-1";

p[28].rank=28;

p[29].name="I-2";

p[29].rank=29;

p[30].name="I-3";

p[30].rank=30;

p[31].name="I-4";

p[31].rank=31;

p[32].name="E";

p[32].rank=32;

p[33].name="I-5";

p[33].rank=33;

p[34].name="I-6";

p[34].rank=34;

p[35].name="I-7";

p[35].rank=35;

p[36].name="I-8";

p[36].rank=36;

p[37].name="I";

p[37].rank=37;

p[38].name="I-13";

p[38].rank=38;

p[39].name="I-14";

p[39].rank=39;

p[40].name="I-15";

p[40].rank=40;

p[41].name="I-16";

p[41].rank=41;

p[42].name="M";

p[42].rank=42;

p[43].name="I-21";

p[43].rank=43;

p[44].name="I-22";

p[44].rank=44;

p[45].name="I-23";

p[45].rank=45;

p[46].name="I-24";

p[46].rank=46;

p[47].name="O";

p[47].rank=47;

p[48].name="N";

p[48].rank=48;

p[49].name="L";

p[49].rank=49;

p[50].name="II-1";

p[50].rank=50;

p[51].name="II-2";

p[51].rank=51;

p[52].name="II-3";

p[52].rank=52;

p[53].name="II-4";

p[53].rank=53;

p[54].name="H";

p[54].rank=54;

p[55].name="II-12";

p[55].rank=55;

p[56].name="II-11";

p[56].rank=56;

p[57].name="II-10";

p[57].rank=57;

p[58].name="II-9";

p[58].rank=58;

p[59].name="II-20";

p[59].rank=59;

p[60].name="II-19";

p[60].rank=60;

p[61].name="II-18";

p[61].rank=61;

p[62].name="II-17";

p[62].rank=62;

p[63].name="F";

p[63].rank=63;

p[64].name="G";

p[64].rank=64;

p[65].name="J";

p[65].rank=65;

p[66].name="K";

p[66].rank=66;

p[67].name="II-5";

p[67].rank=67;

p[68].name="II-6";

p[68].rank=68;

p[69].name="II-7";

p[69].rank=69;

p[70].name="II-8";

p[70].rank=70;

p[71].name="I-12";

p[71].rank=71;

p[72].name="I-11";

p[72].rank=72;

p[73].name="I-10";

p[73].rank=73;

p[74].name="I-9";

p[74].rank=74;

p[75].name="II-13";

p[75].rank=75;

p[76].name="II-14";

p[76].rank=76;

p[77].name="II-15";

p[77].rank=77;

p[78].name="II-16";

p[78].rank=78;

p[79].name="I-20";

p[79].rank=79;

p[80].name="I-19";

p[80].rank=80;

p[81].name="I-18";

p[81].rank=81;

p[82].name="I-17";

p[82].rank=82;

p[83].name="II-21";

p[83].rank=83;

p[84].name="II-22";

p[84].rank=84;

p[85].name="II-23";

p[85].rank=85;

p[86].name="II-24";

p[86].rank=86;

N=87;

}

//输入点的名字，找编号

int search\_point(string tar){

int r=-1;

for(int i=0;i<N;i++){

if(tar==p[i].name){

r=i;

break;

}

}

return r;

}

struct Task{

string name;

double time;

friend bool operator<(const Task &x,const Task &y){

return x.time<y.time;

}

//按时间排序

int rank;

}t[100];

int numT;

struct Car{

vector<int> task;

//表示其任务编号

double w;

//表示其已经浪费的时间

Car(vector<int> TASK,double W):task(TASK),w(W){}

}c[10];

int numC;

//车的数量

//初始化

void init(){

numT=0;

numC=0;

for(int i=0;i<9;i++){

c[i].task.clear();

w=0;

}

}

//测试某一辆车将要造成的停线时间

double test\_time(Car C){

}

int main(){

init1();

init();

freopen("task1\_in.txt","r",stdin);

// freopen("task1\_out.txt","w",stdout);

cin>>numC>>numT;

for(int i=0;i<numT;i++){

cin>>t[i].rank>>t[i].name>>t[i].time;

}

sort(t,t+numT);

return 0;

}

附录5：第三题.cpp

该程序用于计算第三题改变存储情况下的数据改变量。

#include<bits/stdc++.h>

using namespace std;

typedef long long ll;

const int INF=0x3f3f3f3f;

const long long mod=100000007;

const double e=2.718281828459045;

const double pi=3.1415926535;

#define CK cout<<"OK\n";

struct Point{

string name;

int rank;

Point(string s="\_",int x=0):name(s),rank(x){}

}p[87];

double dis[87][87]={

40.0,20.0,40.0,60.0,80.0,100.0,100.0,120.0,140.0,160.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,150.0,221.5,201.5,181.5,161.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,281.5,291.5,311.5,331.5,351.5,291.5,200.0,271.5,160.0,180.0,200.0,220.0,251.5,263.0,283.0,303.0,323.0,291.5,311.5,331.5,351.5,160.0,170.0,180.0,190.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,190.0,210.0,230.0,250.0,210.0,230.0,250.0,270.0,220.0,240.0,260.0,280.0,

20.0,40.0,20.0,40.0,60.0,80.0,80.0,100.0,120.0,140.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,271.5,180.0,251.5,140.0,160.0,180.0,200.0,231.5,243.0,263.0,283.0,303.0,271.5,291.5,311.5,331.5,140.0,150.0,160.0,170.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,200.0,220.0,240.0,260.0,

40.0,20.0,40.0,20.0,40.0,60.0,60.0,80.0,100.0,120.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

60.0,40.0,20.0,40.0,20.0,40.0,40.0,60.0,80.0,100.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,60.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,231.5,140.0,211.5,100.0,120.0,140.0,160.0,191.5,203.0,223.0,243.0,263.0,231.5,251.5,271.5,291.5,100.0,110.0,120.0,130.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,160.0,180.0,200.0,220.0,

80.0,60.0,40.0,20.0,40.0,20.0,20.0,40.0,60.0,80.0,100.0,80.0,60.0,40.0,40.0,60.0,80.0,100.0,40.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,70.0,141.5,121.5,101.5,81.5,161.5,171.5,191.5,211.5,231.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,211.5,120.0,191.5,80.0,100.0,120.0,140.0,171.5,183.0,203.0,223.0,243.0,211.5,231.5,251.5,271.5,80.0,90.0,100.0,110.0,90.0,110.0,130.0,150.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,140.0,160.0,180.0,200.0,

100.0,80.0,60.0,40.0,20.0,40.0,40.0,20.0,40.0,60.0,120.0,100.0,80.0,60.0,60.0,80.0,100.0,120.0,60.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,231.5,140.0,211.5,100.0,120.0,140.0,160.0,191.5,203.0,223.0,243.0,263.0,231.5,251.5,271.5,291.5,100.0,110.0,120.0,130.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,160.0,180.0,200.0,220.0,

100.0,80.0,60.0,40.0,20.0,40.0,40.0,60.0,80.0,100.0,80.0,60.0,40.0,20.0,20.0,40.0,60.0,80.0,20.0,100.0,80.0,60.0,40.0,40.0,60.0,80.0,100.0,50.0,121.5,101.5,81.5,61.5,141.5,151.5,171.5,191.5,211.5,161.5,171.5,191.5,211.5,231.5,181.5,191.5,211.5,231.5,251.5,191.5,100.0,171.5,60.0,80.0,100.0,120.0,151.5,163.0,183.0,203.0,223.0,191.5,211.5,231.5,251.5,60.0,70.0,80.0,90.0,70.0,90.0,110.0,130.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,110.0,130.0,150.0,170.0,120.0,140.0,160.0,180.0,

120.0,100.0,80.0,60.0,40.0,20.0,60.0,40.0,20.0,40.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

140.0,120.0,100.0,80.0,60.0,40.0,80.0,20.0,40.0,20.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,271.5,180.0,251.5,140.0,160.0,180.0,200.0,231.5,243.0,263.0,283.0,303.0,271.5,291.5,311.5,331.5,140.0,150.0,160.0,170.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,200.0,220.0,240.0,260.0,

160.0,140.0,120.0,100.0,80.0,60.0,100.0,40.0,20.0,40.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,150.0,221.5,201.5,181.5,161.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,281.5,291.5,311.5,331.5,351.5,291.5,200.0,271.5,160.0,180.0,200.0,220.0,251.5,263.0,283.0,303.0,323.0,291.5,311.5,331.5,351.5,160.0,170.0,180.0,190.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,190.0,210.0,230.0,250.0,210.0,230.0,250.0,270.0,220.0,240.0,260.0,280.0,

180.0,160.0,140.0,120.0,100.0,120.0,80.0,140.0,160.0,180.0,40.0,20.0,40.0,60.0,100.0,120.0,140.0,160.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,261.5,271.5,291.5,311.5,331.5,271.5,180.0,251.5,140.0,160.0,180.0,200.0,231.5,243.0,263.0,283.0,303.0,271.5,291.5,311.5,331.5,140.0,150.0,160.0,170.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,170.0,190.0,210.0,230.0,190.0,210.0,230.0,250.0,200.0,220.0,240.0,260.0,

160.0,140.0,120.0,100.0,80.0,100.0,60.0,120.0,140.0,160.0,20.0,40.0,20.0,40.0,80.0,100.0,120.0,140.0,80.0,160.0,140.0,120.0,100.0,100.0,120.0,140.0,160.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,241.5,251.5,271.5,291.5,311.5,251.5,160.0,231.5,120.0,140.0,160.0,180.0,211.5,223.0,243.0,263.0,283.0,251.5,271.5,291.5,311.5,120.0,130.0,140.0,150.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,150.0,170.0,190.0,210.0,170.0,190.0,210.0,230.0,180.0,200.0,220.0,240.0,

140.0,120.0,100.0,80.0,60.0,80.0,40.0,100.0,120.0,140.0,40.0,20.0,40.0,20.0,60.0,80.0,100.0,120.0,60.0,140.0,120.0,100.0,80.0,80.0,100.0,120.0,140.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,201.5,211.5,231.5,251.5,271.5,221.5,231.5,251.5,271.5,291.5,231.5,140.0,211.5,100.0,120.0,140.0,160.0,191.5,203.0,223.0,243.0,263.0,231.5,251.5,271.5,291.5,100.0,110.0,120.0,130.0,110.0,130.0,150.0,170.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,150.0,170.0,190.0,210.0,160.0,180.0,200.0,220.0,

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190.0,170.0,150.0,130.0,110.0,130.0,90.0,150.0,170.0,190.0,170.0,150.0,130.0,110.0,110.0,130.0,150.0,170.0,70.0,150.0,130.0,110.0,90.0,90.0,110.0,130.0,150.0,40.0,111.5,91.5,71.5,51.5,131.5,141.5,161.5,181.5,201.5,151.5,161.5,181.5,201.5,221.5,131.5,141.5,161.5,181.5,201.5,121.5,30.0,141.5,50.0,70.0,90.0,110.0,141.5,153.0,173.0,193.0,213.0,161.5,181.5,201.5,221.5,30.0,20.0,10.0,20.0,40.0,60.0,80.0,100.0,40.0,60.0,80.0,100.0,20.0,20.0,40.0,60.0,40.0,60.0,80.0,100.0,50.0,70.0,90.0,110.0,

210.0,190.0,170.0,150.0,130.0,150.0,110.0,170.0,190.0,210.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,90.0,170.0,150.0,130.0,110.0,110.0,130.0,150.0,170.0,60.0,131.5,111.5,91.5,71.5,151.5,161.5,181.5,201.5,221.5,171.5,181.5,201.5,221.5,241.5,151.5,161.5,181.5,201.5,221.5,141.5,50.0,161.5,70.0,90.0,110.0,130.0,161.5,173.0,193.0,213.0,233.0,181.5,201.5,221.5,241.5,50.0,40.0,30.0,40.0,60.0,80.0,100.0,120.0,60.0,80.0,100.0,120.0,20.0,40.0,20.0,40.0,60.0,80.0,100.0,120.0,70.0,90.0,110.0,130.0,

230.0,210.0,190.0,170.0,150.0,170.0,130.0,190.0,210.0,230.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,110.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,80.0,151.5,131.5,111.5,91.5,171.5,181.5,201.5,221.5,241.5,191.5,201.5,221.5,241.5,261.5,171.5,181.5,201.5,221.5,241.5,161.5,70.0,181.5,90.0,110.0,130.0,150.0,181.5,193.0,213.0,233.0,253.0,201.5,221.5,241.5,261.5,70.0,60.0,50.0,60.0,80.0,100.0,120.0,140.0,80.0,100.0,120.0,140.0,40.0,20.0,40.0,20.0,80.0,100.0,120.0,140.0,90.0,110.0,130.0,150.0,

250.0,230.0,210.0,190.0,170.0,190.0,150.0,210.0,230.0,250.0,230.0,210.0,190.0,170.0,170.0,190.0,210.0,230.0,130.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,100.0,171.5,151.5,131.5,111.5,191.5,201.5,221.5,241.5,261.5,211.5,221.5,241.5,261.5,281.5,191.5,201.5,221.5,241.5,261.5,181.5,90.0,201.5,110.0,130.0,150.0,170.0,201.5,213.0,233.0,253.0,273.0,221.5,241.5,261.5,281.5,90.0,80.0,70.0,80.0,100.0,120.0,140.0,160.0,100.0,120.0,140.0,160.0,60.0,40.0,20.0,40.0,100.0,120.0,140.0,160.0,110.0,130.0,150.0,170.0,

210.0,190.0,170.0,150.0,130.0,150.0,110.0,170.0,190.0,210.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,90.0,170.0,150.0,130.0,110.0,110.0,130.0,150.0,170.0,60.0,131.5,111.5,91.5,71.5,151.5,161.5,181.5,201.5,221.5,151.5,161.5,181.5,201.5,221.5,131.5,141.5,161.5,181.5,201.5,121.5,30.0,141.5,70.0,90.0,110.0,130.0,161.5,173.0,193.0,213.0,233.0,161.5,181.5,201.5,221.5,50.0,40.0,30.0,20.0,60.0,80.0,100.0,120.0,60.0,80.0,100.0,120.0,40.0,60.0,80.0,100.0,40.0,20.0,40.0,60.0,50.0,70.0,90.0,110.0,

230.0,210.0,190.0,170.0,150.0,170.0,130.0,190.0,210.0,230.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,110.0,190.0,170.0,150.0,130.0,130.0,150.0,170.0,190.0,80.0,151.5,131.5,111.5,91.5,171.5,181.5,201.5,221.5,241.5,171.5,181.5,201.5,221.5,241.5,151.5,161.5,181.5,201.5,221.5,141.5,50.0,161.5,90.0,110.0,130.0,150.0,181.5,193.0,213.0,233.0,253.0,181.5,201.5,221.5,241.5,70.0,60.0,50.0,40.0,80.0,100.0,120.0,140.0,80.0,100.0,120.0,140.0,60.0,80.0,100.0,120.0,20.0,40.0,20.0,40.0,70.0,90.0,110.0,130.0,

250.0,230.0,210.0,190.0,170.0,190.0,150.0,210.0,230.0,250.0,230.0,210.0,190.0,170.0,170.0,190.0,210.0,230.0,130.0,210.0,190.0,170.0,150.0,150.0,170.0,190.0,210.0,100.0,171.5,151.5,131.5,111.5,191.5,201.5,221.5,241.5,261.5,191.5,201.5,221.5,241.5,261.5,171.5,181.5,201.5,221.5,241.5,161.5,70.0,181.5,110.0,130.0,150.0,170.0,201.5,213.0,233.0,253.0,273.0,201.5,221.5,241.5,261.5,90.0,80.0,70.0,60.0,100.0,120.0,140.0,160.0,100.0,120.0,140.0,160.0,80.0,100.0,120.0,140.0,40.0,20.0,40.0,20.0,90.0,110.0,130.0,150.0,

270.0,250.0,230.0,210.0,190.0,210.0,170.0,230.0,250.0,270.0,250.0,230.0,210.0,190.0,190.0,210.0,230.0,250.0,150.0,230.0,210.0,190.0,170.0,170.0,190.0,210.0,230.0,120.0,191.5,171.5,151.5,131.5,211.5,221.5,241.5,261.5,281.5,211.5,221.5,241.5,261.5,281.5,191.5,201.5,221.5,241.5,261.5,181.5,90.0,201.5,130.0,150.0,170.0,190.0,221.5,233.0,253.0,273.0,293.0,221.5,241.5,261.5,281.5,110.0,100.0,90.0,80.0,120.0,140.0,160.0,180.0,120.0,140.0,160.0,180.0,100.0,120.0,140.0,160.0,60.0,40.0,20.0,40.0,110.0,130.0,150.0,170.0,

220.0,200.0,180.0,160.0,140.0,160.0,120.0,180.0,200.0,220.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,100.0,180.0,160.0,140.0,120.0,120.0,140.0,160.0,180.0,70.0,141.5,121.5,101.5,81.5,161.5,171.5,191.5,211.5,231.5,141.5,151.5,171.5,191.5,211.5,121.5,131.5,151.5,171.5,191.5,111.5,20.0,131.5,80.0,100.0,120.0,140.0,151.5,163.0,183.0,203.0,223.0,151.5,171.5,191.5,211.5,60.0,50.0,40.0,30.0,70.0,90.0,110.0,130.0,70.0,90.0,110.0,130.0,50.0,70.0,90.0,110.0,50.0,70.0,90.0,110.0,40.0,20.0,40.0,60.0,

240.0,220.0,200.0,180.0,160.0,180.0,140.0,200.0,220.0,240.0,220.0,200.0,180.0,160.0,160.0,180.0,200.0,220.0,120.0,200.0,180.0,160.0,140.0,140.0,160.0,180.0,200.0,90.0,161.5,141.5,121.5,101.5,181.5,191.5,211.5,231.5,251.5,161.5,171.5,191.5,211.5,231.5,141.5,151.5,171.5,191.5,211.5,131.5,40.0,151.5,100.0,120.0,140.0,160.0,171.5,183.0,203.0,223.0,243.0,171.5,191.5,211.5,231.5,80.0,70.0,60.0,50.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,70.0,90.0,110.0,130.0,70.0,90.0,110.0,130.0,20.0,40.0,20.0,40.0,

260.0,240.0,220.0,200.0,180.0,200.0,160.0,220.0,240.0,260.0,240.0,220.0,200.0,180.0,180.0,200.0,220.0,240.0,140.0,220.0,200.0,180.0,160.0,160.0,180.0,200.0,220.0,110.0,181.5,161.5,141.5,121.5,201.5,211.5,231.5,251.5,271.5,181.5,191.5,211.5,231.5,251.5,161.5,171.5,191.5,211.5,231.5,151.5,60.0,171.5,120.0,140.0,160.0,180.0,191.5,203.0,223.0,243.0,263.0,191.5,211.5,231.5,251.5,100.0,90.0,80.0,70.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,90.0,110.0,130.0,150.0,90.0,110.0,130.0,150.0,40.0,20.0,40.0,20.0,

280.0,260.0,240.0,220.0,200.0,220.0,180.0,240.0,260.0,280.0,260.0,240.0,220.0,200.0,200.0,220.0,240.0,260.0,160.0,240.0,220.0,200.0,180.0,180.0,200.0,220.0,240.0,130.0,201.5,181.5,161.5,141.5,221.5,231.5,251.5,271.5,291.5,201.5,211.5,231.5,251.5,271.5,181.5,191.5,211.5,231.5,251.5,171.5,80.0,191.5,140.0,160.0,180.0,200.0,211.5,223.0,243.0,263.0,283.0,211.5,231.5,251.5,271.5,120.0,110.0,100.0,90.0,130.0,150.0,170.0,190.0,130.0,150.0,170.0,190.0,110.0,130.0,150.0,170.0,110.0,130.0,150.0,170.0,60.0,40.0,20.0,40.0

};

int N;

void init1(){

p[0].name="III-1";

p[0].rank=0;

p[1].name="III-2";

p[1].rank=1;

p[2].name="III-3";

p[2].rank=2;

p[3].name="III-4";

p[3].rank=3;

p[4].name="A";

p[4].rank=4;

p[5].name="III-5";

p[5].rank=5;

p[6].name="B";

p[6].rank=6;

p[7].name="III-6";

p[7].rank=7;

p[8].name="III-7";

p[8].rank=8;

p[9].name="III-8";

p[9].rank=9;

p[10].name="III-9";

p[10].rank=10;

p[11].name="III-10";

p[11].rank=11;

p[12].name="III-11";

p[12].rank=12;

p[13].name="III-12";

p[13].rank=13;

p[14].name="III-13";

p[14].rank=14;

p[15].name="III-14";

p[15].rank=15;

p[16].name="III-15";

p[16].rank=16;

p[17].name="III-16";

p[17].rank=17;

p[18].name="C";

p[18].rank=18;

p[19].name="III-17";

p[19].rank=19;

p[20].name="III-18";

p[20].rank=20;

p[21].name="III-19";

p[21].rank=21;

p[22].name="III-20";

p[22].rank=22;

p[23].name="III-21";

p[23].rank=23;

p[24].name="III-22";

p[24].rank=24;

p[25].name="III-23";

p[25].rank=25;

p[26].name="III-24";

p[26].rank=26;

p[27].name="D";

p[27].rank=27;

p[28].name="I-1";

p[28].rank=28;

p[29].name="I-2";

p[29].rank=29;

p[30].name="I-3";

p[30].rank=30;

p[31].name="I-4";

p[31].rank=31;

p[32].name="E";

p[32].rank=32;

p[33].name="I-5";

p[33].rank=33;

p[34].name="I-6";

p[34].rank=34;

p[35].name="I-7";

p[35].rank=35;

p[36].name="I-8";

p[36].rank=36;

p[37].name="I";

p[37].rank=37;

p[38].name="I-13";

p[38].rank=38;

p[39].name="I-14";

p[39].rank=39;

p[40].name="I-15";

p[40].rank=40;

p[41].name="I-16";

p[41].rank=41;

p[42].name="M";

p[42].rank=42;

p[43].name="I-21";

p[43].rank=43;

p[44].name="I-22";

p[44].rank=44;

p[45].name="I-23";

p[45].rank=45;

p[46].name="I-24";

p[46].rank=46;

p[47].name="O";

p[47].rank=47;

p[48].name="N";

p[48].rank=48;

p[49].name="L";

p[49].rank=49;

p[50].name="II-1";

p[50].rank=50;

p[51].name="II-2";

p[51].rank=51;

p[52].name="II-3";

p[52].rank=52;

p[53].name="II-4";

p[53].rank=53;

p[54].name="H";

p[54].rank=54;

p[55].name="II-12";

p[55].rank=55;

p[56].name="II-11";

p[56].rank=56;

p[57].name="II-10";

p[57].rank=57;

p[58].name="II-9";

p[58].rank=58;

p[59].name="II-20";

p[59].rank=59;

p[60].name="II-19";

p[60].rank=60;

p[61].name="II-18";

p[61].rank=61;

p[62].name="II-17";

p[62].rank=62;

p[63].name="F";

p[63].rank=63;

p[64].name="G";

p[64].rank=64;

p[65].name="J";

p[65].rank=65;

p[66].name="K";

p[66].rank=66;

p[67].name="II-5";

p[67].rank=67;

p[68].name="II-6";

p[68].rank=68;

p[69].name="II-7";

p[69].rank=69;

p[70].name="II-8";

p[70].rank=70;

p[71].name="I-12";

p[71].rank=71;

p[72].name="I-11";

p[72].rank=72;

p[73].name="I-10";

p[73].rank=73;

p[74].name="I-9";

p[74].rank=74;

p[75].name="II-13";

p[75].rank=75;

p[76].name="II-14";

p[76].rank=76;

p[77].name="II-15";

p[77].rank=77;

p[78].name="II-16";

p[78].rank=78;

p[79].name="I-20";

p[79].rank=79;

p[80].name="I-19";

p[80].rank=80;

p[81].name="I-18";

p[81].rank=81;

p[82].name="I-17";

p[82].rank=82;

p[83].name="II-21";

p[83].rank=83;

p[84].name="II-22";

p[84].rank=84;

p[85].name="II-23";

p[85].rank=85;

p[86].name="II-24";

p[86].rank=86;

N=87;

}

int search\_point(string tar){

int r=-1;

for(int i=0;i<N;i++){

if(tar==p[i].name){

r=i;

break;

}

}

return r;

}

int main(){

init1();

freopen("t3\_1\_out.txt","w",stdout);

double v=300000000; //速度

cout<<" 先输入点的个数，再输入点的名称，再输出发时间（从D），最后输每个点的需求时间\n";

int num;

cin>>num;

int r[10];

r[0]=search\_point("D");

for(int i=1;i<=num;i++){

string tar;

cin>>tar;

r[i]=search\_point(tar);

}

double pre=0,real\_pre; //real pre表示实际上倒达d的时间（由于速度改变，到达d的时间也会改变）

double W=0;

double b[10];

cin>>pre;

real\_pre=(pre-3\*num)\*5/v+3\*num;

pre=real\_pre;

double a[10];

for(int i=1;i<=num;i++){

cin>>a[i];

}

b[0]=pre-3;

for(int i=1;i<=num;i++){

b[i]=b[i-1]+3+dis[ r[i] ][ r[i-1] ]/v;

if(b[i]<a[i])b[i]=a[i]; //无法贮存

W+=b[i]-a[i];

}

CK

cout<<"\n到达时间\n";

for(int i=1;i<=num;i++){

printf("%.1lf\t",b[i]);

}

printf("\n%.1lf\n",W);

return 0;

}

附录6：距离查询.cpp

该程序用于查询两点间的距离，方便手头计算。

#include<bits/stdc++.h>

using namespace std;

typedef long long ll;

const int INF=0x3f3f3f3f;

const long long mod=100000007;

const double e=2.718281828459045;

const double pi=3.1415926535;

#define CK cout<<"OK\n";

struct Point{

string name;

int rank;

Point(string s="\_",int x=0):name(s),rank(x){}

}p[100];

double dis[100][100];

int N;

int search\_point(string tar){

int r=-1;

for(int i=0;i<N;i++){

if(tar==p[i].name){

r=i;

break;

}

}

return r;

}

int main(){

freopen("distance\_out.txt","r",stdin);

scanf("%d",&N);

for(int i=0;i<N;i++){

cin>>p[i].name;

p[i].rank=i;

}

for(int i=0;i<N;i++){

for(int j=0;j<N;j++)scanf("%lf",&dis[i][j]);

}

freopen("CON","r",stdin); //切换到从控制台输入

string s1,s2;

while(1){

cin>>s1;

if(s1=="end")break;

cin>>s2;

int r1,r2;

r1=search\_point(s1);

r2=search\_point(s2);

if(r1==-1 || r2==-1)printf("输入有误\n");

else{

printf("%.1lf\n",dis[r1][r2]/5);

}

}

return 0;

}

附录7：头部1.cpp

该程序用于搜索找货路径。

#include<bits/stdc++.h>

using namespace std;

typedef long long ll;

const int INF=0x3f3f3f3f;

const long long mod=100000007;

const double e=2.718281828459045;

const double pi=3.1415926535;

#define CK cout<<"OK\n";

struct Point{

string name;

int rank;

Point(string s="\_",int x=0):name(s),rank(x){}

}p[100];

double dis[100][100];

int cnt;

void init(){

cnt=0;

for(int i=0;i<100;i++){

p[i].name="\_";

p[i].rank=-1;

}

for(int i=0;i<100;i++){

for(int j=0;j<100;j++)dis[i][j]=1000000;

}

}

int search\_point(string tar){

int r=-1;

for(int i=0;i<cnt;i++){

if(tar==p[i].name){

r=i;

break;

}

}

return r;

}

int main(){

freopen("distance\_in.txt","r",stdin);

freopen("头部1.txt","w",stdout);

int N;

init();

scanf("%d",&N);

for(int i=0;i<N;i++){

string s1,s2;

double tmp;

cin>>s1>>s2>>tmp;

int r1,r2;

r1=search\_point(s1);

if(r1==-1){

p[cnt].rank=cnt;

p[cnt].name=s1;

r1=cnt;

cnt++;

}

r2=search\_point(s2);

if(r2==-1){

p[cnt].rank=cnt;

p[cnt].name=s2;

r2=cnt;

cnt++;

}

dis[r1][r2]=tmp;

dis[r2][r1]=tmp;

}

for(int i=0;i<cnt;i++)for(int j=0;j<cnt;j++)for(int k=0;k<cnt;k++)

if(dis[j][k]>dis[j][i]+dis[i][k]){

dis[j][k]=dis[j][i]+dis[i][k];

dis[k][j]=dis[j][i]+dis[i][k];

}

printf("\n");

for(int i=0;i<cnt;i++){

for(int j=0;j<cnt;j++)printf("%.1lf,",dis[i][j]);

printf("\n");

}

return 0;

}