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#include <iostream.h>
        int max=1201;
const
void readfile(int c[max][max], int &n);
int selectnextcity(int c[max][max], int n, int i);
void GTS1(int c[max][max], int n, int starcity);
void GTS2(int c[max][max], int n);
        c[max][max];
int
        *visit,*tour,n,cost;
int
int v[max],p;
int main()
readfile(c,n);
GTS2(c,n);
}
void readfile(int c[max][max], int &n)
FILE *f;
f=fopen("gts2.txt","rt");
fscanf(f, "%d%d", &n, &p);
for (int i=1;i<=p;i++)</pre>
fscanf(f, "%d", &v[i]);
for (int i=1;i<=n;i++)</pre>
for (int j=1; j<=n; j++)
fscanf(f, "%d", &c[i][j]);
fclose(f);
}
int selectnextcity(int c[max][max], int n,int i)
int m,min=INT_MAX;
for (int j=1;j<=n;j++)</pre>
if (visit[j]==0 && c[i][j]<min)</pre>
         min=c[i][j];
         m=j;
return m;
}
void GTS1(int c[max][max], int n, int starcity)
        visit=(int*)calloc(sizeof(int),max);
        tour=(int*)calloc(sizeof(int),max);
        cost=0;
        int w,d=1;
        tour[d]=starcity;
        visit[starcity]=1;
        int currentcity=starcity;
```

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for (int i=1;i<=n;i++)</pre>
                 w=selectnextcity(c,n,currentcity);
                 tour[++d]=w;
                 visit[w]=1;
                 cost+=c[currentcity][w];
                 currentcity=w;
        cost+=c[currentcity][starcity];
}
void GTS2(int c[max][max], int n)
{
        int costbest=INT_MAX;
        int *tourbest;
        cost=0;
        for (int k=1;k<=p;k++)</pre>
        GTS1(c,n,v[k]);//GTS1(c,n,v[k]);
        if (cost<costbest)</pre>
                 {
                          costbest=cost;
                          tourbest=tour;
                 }
        }
cout<<"result GTS2: "<<endl<<costbest<<endl;</pre>
}
```