Q Search



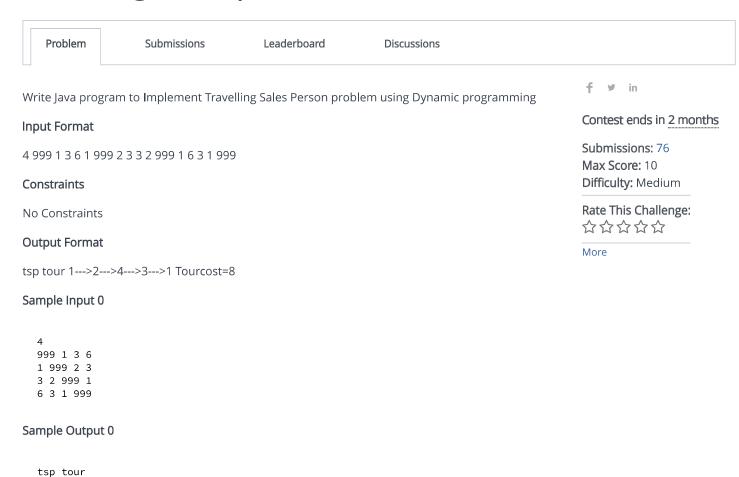


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1--->2--->4--->3--->1

Tourcost=8

## Travelling\_Sales\_person



```
Java 7
                                                                                                    Ö
1 //224G1A0553
 2 ▼import java.util.Scanner;
3 ▼public class Tsp {
4 static int cost[][];
 5 public int tsp(int[] path,int start,int n) {
 6 int i,j,k,ccost;
 7 ▼int[] mintour=new int[n+1];
8 vint[] temp=new int[n+1];
9 if(start==n-1)
10 ▼return cost[path[n-1]][path[n]]+cost[path[n]][1];
11 | int mincost=999;
12 ▼for(i=start+1;i<=n;i++) {
13 | for(j=1;j<=n;j++)
14 √temp[j]=path[j];
15 √temp[start+1]=path[i];
16 √temp[i]=path[start+1];
```

```
17 ▼if(cost[path[start]][path[i]]+(ccost=tsp(temp,start+1,n))<mincost) {
18 mincost=cost[path[start]][path[i]]+ccost;
19 for(k=1;k<=n;k++)
20 ▼mintour[k]=temp[k];
21 }
22 }
23 for(i=1;i<=n;i++)
24 ▼path[i]=mintour[i];
25 return mincost;
26 }
27 ▼public static void main(String[] args) {
28 int mincost, n, i, j;
29 Scanner s = new Scanner(System.in);
30 //System.out.println("enter the no of cities: ");
31 n=s.nextInt();
32 vint path[] = new int[n+1];
33 \sqrt{cost} = new int[n+1][n+1];
34 //System.out.println("Enter the cost matrix:");
35 for(i=1;i<=n;i++)
36 for(j=1;j<=n;j++)
37 ▼cost[i][j]=s.nextInt();
38 for(i=1;i<=n;i++)
39 ▼path[i]=i;
40 Tsp obj = new Tsp();
41 mincost=obj.tsp(path,1,n);
42 System.out.println("tsp tour");
43 for(i=1;i<=n;i++)
44 ▼System.out.print(path[i] + "--->");
45 System.out.println("1");
   System.out.println("Tourcost=" + mincost);
46
   }
47
48
   }
                                                                                            Line: 1 Col: 13
```

<u>Lupload Code as File</u> Test against custom input

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