```
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floyds.c X
            #include<stdio.h>
      1
            #include<comio.h>
      2
            int a[10][10],n;
      3
            void floyds();
      4
            int min(int, int);
      5
            void main()
      6
      7
      8
            int i,j;
            printf("\n enter the no. of vertices:\t");
     9
            scanf ("%d", &n);
    10
            printf("\n enter the cost matrix:\n");
    11
    12
            for(i=1;i<=n;i++)

    13
    14
            for (j=1;j<=n;j++)
    15
    16
            scanf("%d", &a[i][j]);
    17
    18
           - 3
    19
            floyds();
    20
    21
            void floyds()
    22
    23
            int i, j, k;
            for (k=1; k<=n; k++)
    24
    25
    26
            for (i=1; i<=n; i++)
    27
            for (j=1;j<=n;j++)
    28
    29
    30
            a[i][j]=min(a[i][j],a[i][k]+a[k][j]);
    31
    32
    33
    34
            printf("\n all pair shortest path matrix is:\n");
    35
    36
            for (i=1; i<=n; i++)
```

ente	er the no	o. of ve	rtices:	4
9999 2 9999	er the co 9999 9999 999 7 999 9999 999	3 9999 99 9999 99 1	ix:	
all 10	pair sho	ortest p 3	ath matri 4	x is:
2	12	5	6	

2 12 5 6 7 7 10 1 6 16 9 10

Process returned 4 (0x4) execution time: 65.382 s Press any key to continue.