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import java.util.Scanner;

class floyds
{
    public static void main(String args[])
    {
        Scanner sc =new Scanner(System.in);

        System.out.println("Enter the number of vetices");

        int n=sc.nextInt();

        int adj[][]=new int[20][20];

        System.out.println("Enter the elements of the Adjacency Matrix");

        for(int i=1;i<=n;i++)
        {
            for(int j=1;j<=n;j++)
            {
                adj[i][j]=sc.nextInt();
            }
        }

        flyd(adj,n);

        System.out.println("The shortest path is");

        for(int i=1;i<=n;i++)
        {
            for(int j=1;j<=n;j++)
            {
                System.out.print(adj[i][j]+" ");
            }

            System.out.println();
        }
    }

    static int flyd(int adj[][[]],int n)
    {

```

```

for(int k=1;k<=n;k++)
{
    for(int i=1;i<=n;i++)
    {
        for(int j=1;j<=n;j++)
        {
            adj[i][j]=min(adj[i][j],(adj[i][k]+adj[k][j]));
        }
    }
}
return 0;

}

static int min(int a,int b)
{
    if(a<b){
        return a;
    }
    return b;
}
}

```