

```

public class group{
    public static void printmatrix( double [][] cc )
    {
        System.out.println("-----" );
        for(int i = 0; i < 2;i++)
        {
            for(int j = 0; j < 2;j++)
            {
                System.out.print(cc[i][j] + " " );
            }
            System.out.println(" " );
        }
    }

    static double grp [][][] = new double [4][2][2];
    public static void main (String a[]){
        int i ;
        // this is the zeroth element = e
        // ( 1 0)
        // ( 0 1)
        grp[0][0][0]=1.0; grp[0][0][1]=0.0;
        grp[0][1][0]=1.0; grp[0][1][1]=1.0;
        // this the 1th element = a
        // (1 0)
        // (0,-1)
        grp[1][0][0]=1.0; grp[1][0][1]=0.0;
        grp[1][1][0]=0.0; grp[1][1][1]=-1.0;
        // this the 2nd element = b
        // (-1 0)
        // (0,1)
        grp[2][0][0]=-1.0; grp[2][0][1]=0.0;
        grp[2][1][0]=0.0; grp[2][1][1]=1.0;
        // this the 3rd element = c
        // (-1 0)
        // (0,-1)
        grp[3][0][0]=-1.0; grp[3][0][1]=0.0;
        grp[3][1][0]=0.0; grp[3][1][1]=-1.0;

        for(i = 0; i < 4;i++)
        {
            printmatrix(grp[i]);
        }
    }

}

```