

## Transpose of a Matrix

```
import java.io.*;

class transpose
{
public static void main(String[] args)throws IOException
    {
        int i,j,temp;
        int a[][]=new int [2][2];

        int b[][]=new int [2][2];
        System.out.println("enter elements for matrix");
        DataInputStream in=new DataInputStream(System.in);
        for(i=0;i<=1;i++)
        {
            for(j=0;j<=1;j++)
            {
                a[i][j]=Integer.parseInt(in.readLine());
            }
        }
        for(i=0;i<=1;i++)
        {
            for(j=0;j<=1;j++)
            {
                System.out.print(a[i][j] + "");
            }
            System.out.println();
        }
    }
}
```

```
System.out.println("The transpose is");
```

```
for(i=0;i<=1;i++)
```

```
{
```

```
for(j=0;j<=1;j++)
```

```
{
```

```
System.out.print(a[j][i] + "");
```

```
}
```

```
System.out.println();
```

```
}
```

```
}
```

```
}
```