

```
>> Q3_a
```

```
a =
```

```
1 1 1 1 0 0 0 0
```

```
b =
```

```
0 0 1 2 3 0 0 0
```

```
c =
```

```
0 0 1 3 6 6 5 3 0 0 0 0 0 0 ✓
0
```

```
af =
```

```
Columns 1 through 6
```

```
4.0000 + 0.0000i 1.0000 - 2.4142i 0.0000 + 0.0000i 1.0000 - 0.4142i 0.0000 + ✓
0.0000i 1.0000 + 0.4142i
```

```
Columns 7 through 8
```

```
0.0000 + 0.0000i 1.0000 + 2.4142i
```

```
fft_a =
```

```
4.0000 2.6131 0 1.0824 0 1.0824 0 2.6131
```

```
bf =
```

```
Columns 1 through 6
```

```
6.0000 + 0.0000i -4.4142 - 2.4142i 2.0000 + 2.0000i -1.5858 - 0.4142i 2.0000 + ✓
0.0000i -1.5858 + 0.4142i
```

```
Columns 7 through 8
```

```
2.0000 - 2.0000i -4.4142 + 2.4142i
```

```
fft_b =
```

```
6.0000 5.0313 2.8284 1.6390 2.0000 1.6390 2.8284 5.0313
```

```
cc =
```

```
    0.0000         0    1.0000    3.0000    6.0000    6.0000    5.0000    3.0000
```

```
>>
```