```
>> l = 10
for k = 1:l
    a = [1; 1; 1; 1; 0; 0; 0; 0;]
    b = circshift(a, 3)+0:1 * randn(8, 1)
    c = conv(a,b)
    stem(c)
    title('Plot of vector"c"')
    [max_val, ind] = max(c)
end

l =

    10


a =

     1
     1
     1
     1
     0
     0
     0
     0


b =

  1×0 empty double row vector


c =

     0
     0
     0
     0
     0
     0
     0
     0


max_val =

     0


ind =
```

```
     1


a =

     1
     1
     1
     1
     0
     0
     0
     0


b =

  1×0 empty double row vector


c =

     0
     0
     0
     0
     0
     0
     0
     0


max_val =

     0


ind =

     1


a =

     1
     1
     1
     1
     0
```

```
       0
       0
       0
```

b =

```
       0
```

c =

```
       0
       0
       0
       0
       0
       0
       0
       0
```

max_val =

```
       0
```

ind =

```
       1
```

a =

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

b =

  1×0 empty double row vector

c =

```
        0
        0
        0
        0
        0
        0
        0
        0


max_val =

        0


ind =

        1


a =

        1
        1
        1
        1
        0
        0
        0
        0


b =

        0      1      2


c =

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

max_val =

     3

ind =

     3

a =

     1
     1
     1
     1
     0
     0
     0
     0

b =

  1×0 empty double row vector

c =

     0
     0
     0
     0
     0
     0
     0
     0

max_val =

     0

ind =

     1

a =

     1
     1
     1
     1
     0
     0
     0
     0

b =

     0   1

c =

     0
     1
     1
     1
     1
     0
     0
     0
     0

max_val =

     1

ind =

     2

a =

     1
     1
     1
     1
     0
     0
     0

```
     0


b =

     0


c =

     0
     0
     0
     0
     0
     0
     0
     0


max_val =

     0


ind =

     1


a =

     1
     1
     1
     1
     0
     0
     0
     0


b =

  1×0 empty double row vector


c =

     0
```

```
       0
       0
       0
       0
       0
       0
       0


max_val =

       0


ind =

       1


a =

       1
       1
       1
       1
       0
       0
       0
       0


b =

       0     1


c =

       0
       1
       1
       1
       1
       0
       0
       0
       0


max_val =
```

```
     1


ind =

     2

>>
```