

Avoid a Common Error in Using the for - loop

```

for k = 4:6
    disp(k)
    k= 9;
    disp(k)
end

```

Start of 1st pass: k takes the first value promised, 4
 display 4
 k gets 9
 display 9

```

for k = 4:6
    disp(k)
    k= 9;
    disp(k)
end

```

Start of 1st pass: k takes the first value promised, 4
 display 4
 k gets 9
 display 9

Start of 2nd pass: k takes the second value promised, 5
 display 5
 k gets 9
 display 9

```

for k = 4:6
    disp(k)
    k= 9;
    disp(k)
end

```

Start of 1st pass: k takes the first value promised, 4
 display 4
 k gets 9
 display 9

Start of 2nd pass: k takes the second value promised, 5
 display 5
 k gets 9
 display 9

Start of 3rd pass: k takes the third value promised, 6
 display 6
 k gets 9
 display 9

```

for k = 4:6
    disp(k)
    k= 9;
    disp(k)
end

```

Not a condition (boolean expression) that checks whether k<=6.
 It is an expression that specify values:

What will be displayed when you run the following script?

```

disp('A')
for k= 5:1:2
    disp(k)
end
disp('B')

```

Think about it. Then check for yourself in Matlab!

A or A or A
 5 or B or <Some error message about index out of bound>
 B or