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% gda00_12
% example of a for loop containing a consitional statement
% supports Section I.5.1

% define vectors a and b
a = [ 1, 2, 1, 4, 3, 2, 6, 4, 9, 2, 1, 4 ]';

% use two nested for loop to reverse the order
% of the elements in each row of the matrix M
b = a;
for i = [1:12]
    if ( a(i) >= 6 )
        b(i) = 6;
    else
        b(i) = a(i);
    end
end

% display vectors side by side
[a, b]

```

ans =

1	1
2	2
1	1
4	4
3	3
2	2
6	6
4	4
9	6
2	2