```
%Ryan Plante
%ECE 498 Matlab Homework 4
%2/26/2018
```

Leap Years

```
leapyears = 0;
for year = 1:5000
    if((mod(year,4)) ~= 0)
    elseif ((mod(year, 100)) ~= 0)
        leapyears = leapyears + 1;
    elseif ((mod(year,400)) ~= 0)
    else
        leapyears = leapyears + 1;
    end
end
numOfLeapYears = leapyears
```

numOfLeapYears =

1212

Table Tennis Tournament

```
%Team 1
A = 1; B = 2; C = 3;
team1 = [A B C];
%Team 2
X = 4; Y = 5; Z = 6;
team2 = [X Y Z];

%keys
key1 = ['A' 'B' 'C'];
key2 = ['X' 'Y' 'Z'];
for n = 1:length(team2)
    for i = 1:length(team1)
        if((n == 1) && (i == 1)) %A and X cannt play
        elseif((n == 1) && (i == 3)) %X and C cannot play
        elseif((n == 3) && (i == 3)) %Z and C cannot play
        else
            fprintf('Team 2s player %c will play team 1s player %c
 \n', key2(n), key1(i))
        end
    end
end
```

Team 2s player X will play team 1s player B
Team 2s player Y will play team 1s player A
Team 2s player Y will play team 1s player B

```
Team 2s player Y will play team 1s player C
Team 2s player Z will play team 1s player A
Team 2s player Z will play team 1s player B
```

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