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function [nd] = days(mo, da, leap)

% HOMEWORK 4, Problem 1: This code determines the number of elapsed
% days in a year. This function will begin counting the number of
% elapsed days starting from January (mo = 1) First (da = 1). We are
% to assume when a leap year is a reality, we just add one day onto the
% number of elapsed days to represent the leap year.

% input variables:
% nd = number of days
% mo = month (1-12) (January being 1)
% da = day (1-31) We will assume all months have 31 days.
% leap = 0 for non-leap year and 1 for leap year

leap = menu('Is it a leap year (yes or no)?', 'Yes', 'No')
%yes==1, no==0 (But the menu function uses yes=1, no=2)

mo = input('What is the number of the month in question?')
da = input('What day of the month specified is it?')

if leap == 0 %if it is not a leap year
    if mo>1 %if the month is past January
        nd = (mo-1)*(31) + da;
    else
        nd = da;
    end
else
    if mo>1 %if the month is past January
        nd = (mo-1)*(31) + da + 1; %adding one day for a leap year
    else
        nd = da + 1; %add one day for a leap year
    end
end

%display number of days
sent='The number of elapsed days is ';
a = [sent, num2str(nd), ' days.'];
disp(a);

leap =

    1

```

*Error using input
Cannot call INPUT from EVALC.*

*Error in HW_4_Prob_1 (line 14)
mo = input('What is the number of the month in question?')*

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