```matlab
function [endTime] = incrementTime(...
                  startTime,increment)

    % Function to increment a
    % date vector by a specified
    % amount of years, months, days,
    % hours, minutes, and seconds.

    % Date vector looks like this:
    % [Y M D H MN S].

    endTime = zeros(1,6);

    % Increment seconds.
    new_sec = startTime(6) + increment(6);
    increment(6) = increment(6) ...
        + mod(new_sec,60);
    increment(5) = increment(5) ...
        + floor(new_sec/60);

    % Increment minutes.
    new_min = startTime(5) + increment(5);
    increment(5) = increment(5) ...
        + mod(new_min,60);
    increment(4) = increment(4) ...
        + floor(new_min/60);

    % Increment hours.
    new_hour = startTime(4) + increment(4);
    increment(4) = increment(4) ...
        + mod(new_hour,24);
    increment(3) = increment(3) ...
        + floor(new_hour/24);

    % month_28.25 = (startTime(2) == 2);
    % month_30 = ((startTime(2) == 4)...
    %   || (startTime(2) == 6)...
    %   || (startTime(2) == 9)...
    %   || (startTime(2) == 11));
    % month_31 = ((startTime(2) == 1)
    %   || (startTime(2) == 3)...
    %   || (startTime(2) == 5)...
    %   || (startTime(2) == 7)...
    %   || (startTime(2) == 8)...
    %   || (startTime(2) == 10)...
    %   || (startTime(2) == 12));

    % % Increment days.
    % new_day = startTime(3) + increment(3);
    % if(new_day > )
    % increment(3) = increment(3)...
```

```matlab
%    + mod(new_day,???????????);
% increment(2) = increment(2)...
%    + floor(new_day/?????????????);

% Increment months.

% Increment years.
%   endTime(1) = startTime(1) + increment(1);

    return;

end
```