```matlab
clear all; close all;

VarStore

strNam = ['mat_files/TLE_',num2str(launchYear),'.mat']; % get strNam
if exist(strNam, 'file') == 2
    load(strNam, 'tle_final'); % load in file

end


tle_view_temp=["norad_cat_id","Epoch time","Inclination (deg)","RAAN
 (deg)","Eccentricity (deg)","Arg of perigee(deg)","Mean anomaly
 (deg)","Mean motion (rev/day)","Period of rev (s/rev)","Semi-major
 axis (meter)","Semi-minor axis (meter)"];

tle_veiw = [tle_view_temp;tle_final]; % useful for looking at numbers

tle_latest=sortrows(tle_final(:,:),2); % sort by last epoch
c=clock;
%cyear=clock(1); cmonth=clock(2); cday =clock(3); chour=clock(4);
 cmin=clock(5); csec=clock(6);
cyear=c(1); cmonth=c(2); cday =c(3); chour=c(4); cmin=c(5); csec=c(6);
tleY=tle_latest(:,2);
tleY=[tleY,floor(tle_latest(:,2)/1000),mod(tle_latest(:,2),1000)];

if mod(cyear,4)==0
    % is leap year
    days=366;
    f=29;
else
    days =365;
    f=28;
end

D = datetime(2018,1,1);
C = calmonths(0:c(2));
c1=caldays(1:212);
%M = D + C
m1=D+c1


[y,m,d]=ymd(datetime)


m1 =

  1×212 datetime array

Columns 1 through 5

    02-Jan-2018    03-Jan-2018    04-Jan-2018    05-Jan-2018    06-Jan-2018
```

Columns 6 through 10

   07-Jan-2018   08-Jan-2018   09-Jan-2018   10-Jan-2018   11-Jan-2018

Columns 11 through 15

   12-Jan-2018   13-Jan-2018   14-Jan-2018   15-Jan-2018   16-Jan-2018

Columns 16 through 20

   17-Jan-2018   18-Jan-2018   19-Jan-2018   20-Jan-2018   21-Jan-2018

Columns 21 through 25

   22-Jan-2018   23-Jan-2018   24-Jan-2018   25-Jan-2018   26-Jan-2018

Columns 26 through 30

   27-Jan-2018   28-Jan-2018   29-Jan-2018   30-Jan-2018   31-Jan-2018

Columns 31 through 35

   01-Feb-2018   02-Feb-2018   03-Feb-2018   04-Feb-2018   05-Feb-2018

Columns 36 through 40

   06-Feb-2018   07-Feb-2018   08-Feb-2018   09-Feb-2018   10-Feb-2018

Columns 41 through 45

   11-Feb-2018   12-Feb-2018   13-Feb-2018   14-Feb-2018   15-Feb-2018

Columns 46 through 50

   16-Feb-2018   17-Feb-2018   18-Feb-2018   19-Feb-2018   20-Feb-2018

Columns 51 through 55

   21-Feb-2018   22-Feb-2018   23-Feb-2018   24-Feb-2018   25-Feb-2018

Columns 56 through 60

   26-Feb-2018   27-Feb-2018   28-Feb-2018   01-Mar-2018   02-Mar-2018

Columns 61 through 65

   03-Mar-2018   04-Mar-2018   05-Mar-2018   06-Mar-2018   07-Mar-2018

Columns 66 through 70

   08-Mar-2018   09-Mar-2018   10-Mar-2018   11-Mar-2018   12-Mar-2018

Columns 71 through 75

```
    13-Mar-2018    14-Mar-2018    15-Mar-2018    16-Mar-2018    17-Mar-2018

Columns 76 through 80

    18-Mar-2018    19-Mar-2018    20-Mar-2018    21-Mar-2018    22-Mar-2018

Columns 81 through 85

    23-Mar-2018    24-Mar-2018    25-Mar-2018    26-Mar-2018    27-Mar-2018

Columns 86 through 90

    28-Mar-2018    29-Mar-2018    30-Mar-2018    31-Mar-2018    01-Apr-2018

Columns 91 through 95

    02-Apr-2018    03-Apr-2018    04-Apr-2018    05-Apr-2018    06-Apr-2018

Columns 96 through 100

    07-Apr-2018    08-Apr-2018    09-Apr-2018    10-Apr-2018    11-Apr-2018

Columns 101 through 105

    12-Apr-2018    13-Apr-2018    14-Apr-2018    15-Apr-2018    16-Apr-2018

Columns 106 through 110

    17-Apr-2018    18-Apr-2018    19-Apr-2018    20-Apr-2018    21-Apr-2018

Columns 111 through 115

    22-Apr-2018    23-Apr-2018    24-Apr-2018    25-Apr-2018    26-Apr-2018

Columns 116 through 120

    27-Apr-2018    28-Apr-2018    29-Apr-2018    30-Apr-2018    01-May-2018

Columns 121 through 125

    02-May-2018    03-May-2018    04-May-2018    05-May-2018    06-May-2018

Columns 126 through 130

    07-May-2018    08-May-2018    09-May-2018    10-May-2018    11-May-2018

Columns 131 through 135

    12-May-2018    13-May-2018    14-May-2018    15-May-2018    16-May-2018

Columns 136 through 140

    17-May-2018    18-May-2018    19-May-2018    20-May-2018    21-May-2018
```

Columns 141 through 145

    22-May-2018   23-May-2018   24-May-2018   25-May-2018   26-May-2018

Columns 146 through 150

    27-May-2018   28-May-2018   29-May-2018   30-May-2018   31-May-2018

Columns 151 through 155

    01-Jun-2018   02-Jun-2018   03-Jun-2018   04-Jun-2018   05-Jun-2018

Columns 156 through 160

    06-Jun-2018   07-Jun-2018   08-Jun-2018   09-Jun-2018   10-Jun-2018

Columns 161 through 165

    11-Jun-2018   12-Jun-2018   13-Jun-2018   14-Jun-2018   15-Jun-2018

Columns 166 through 170

    16-Jun-2018   17-Jun-2018   18-Jun-2018   19-Jun-2018   20-Jun-2018

Columns 171 through 175

    21-Jun-2018   22-Jun-2018   23-Jun-2018   24-Jun-2018   25-Jun-2018

Columns 176 through 180

    26-Jun-2018   27-Jun-2018   28-Jun-2018   29-Jun-2018   30-Jun-2018

Columns 181 through 185

    01-Jul-2018   02-Jul-2018   03-Jul-2018   04-Jul-2018   05-Jul-2018

Columns 186 through 190

    06-Jul-2018   07-Jul-2018   08-Jul-2018   09-Jul-2018   10-Jul-2018

Columns 191 through 195

    11-Jul-2018   12-Jul-2018   13-Jul-2018   14-Jul-2018   15-Jul-2018

Columns 196 through 200

    16-Jul-2018   17-Jul-2018   18-Jul-2018   19-Jul-2018   20-Jul-2018

Columns 201 through 205

    21-Jul-2018   22-Jul-2018   23-Jul-2018   24-Jul-2018   25-Jul-2018

Columns 206 through 210

```
    26-Jul-2018    27-Jul-2018    28-Jul-2018    29-Jul-2018    30-Jul-2018

Columns 211 through 212

    31-Jul-2018    01-Aug-2018


y =

        2018


m =

      8


d =

      1
```

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