Program_08_2

Requirements

Your MATLAB script **must**

- Read in birthdates from the file named BirthDates.txt (use the **importdata** function).
- Output the original data in table form in its original order
- Output the original data **sorted** in ascending order by age using a user defined function named **dateSort()**. (The dateSort() function file is provided for you)
- Output the **sorted** data containing birthdates under 21 using a user defined function named **over21()** (The over21() function file is provided for you). Do **not** simply delete the over 21 dates to obtain under 21 dates. Use your knowledge of logical arrays and logical operators to (very easily) obtain the under 21 dates.
- Output the **sorted** data containing birthdates over 21 using a user defined function named **over21()**.
- Use the current date. Note that this may result in your output being slightly different compared to what you see in the example output since I ran my program on a different day.

Tips:

- **importdata()** will import the data as a struct, so I would suggest using the command window to mess around with the imported data to get an idea of what it looks like and how it is structured.

Program

```
% Filename: Program_08_2
% Author:
% Assisted by:
```

Example Output

When running your program from the **Command Window** your results should match the following.

```
Output for Progam_08_2 written by Geoff Berl.

Original Dates from BirthDates.txt
 Year    Month    Day
 1960      09      22
 2014      02      05
 1992      11      06
 2002      09      24
 2014      01      29
 1994      02      07
 1993      07      30
 1988      11      07
 1986      09      09
 2008      11      16
 2006      03      25
 1976      07      11
 2005      03      07
 1970      06      26
 2010      03      30
 1980      10      15
 1977      07      16
 2006      02      17
 1998      12      27
 1996      02      05
 1973      07      03
 2002      07      08
 1962      11      09
 1973      10      24
 1988      01      19
 1983      10      20
 1964      12      05
 1985      04      30
 1961      10      03
 2011      11      27
 1991      09      13
 1984      07      25
 2014      02      08
 2005      03      16
 2008      06      10
 2011      08      19

...
```

Birth Dates Sorted from Youngest to Oldest

Year	Month	Day
2021	04	02
2020	07	18
2020	04	18
2019	06	11
2015	08	06
2014	08	13
2014	07	02
2014	02	08
2014	02	05
2014	01	29
2013	11	10
2011	12	10
2011	11	27
2011	08	19
2010	03	30
2009	05	20
2008	11	16
2008	06	10
2008	03	23
2007	05	22
2006	10	01
2006	06	30
2006	03	25
2006	02	17
2005	03	16
2005	03	07
2004	09	21
2004	09	02
2003	10	17
2003	06	08
2003	05	29
2003	03	29
2002	09	24
2002	07	08
2002	05	06
2001	01	14
1999	11	22
1999	06	14
1998	12	27
1996	02	05
1995	12	18
1995	09	05

...

Birth Dates with Ages Less Than 21 Years

Year	Month	Day
2021	04	02
2020	07	18
2020	04	18
2019	06	11
2015	08	06
2014	08	13
2014	07	02
2014	02	08
2014	02	05
2014	01	29
2013	11	10
2011	12	10
2011	11	27
2011	08	19
2010	03	30
2009	05	20
2008	11	16
2008	06	10
2008	03	23
2007	05	22
2006	10	01
2006	06	30
2006	03	25
2006	02	17
2005	03	16
2005	03	07
2004	09	21
2004	09	02
2003	10	17
2003	06	08
2003	05	29
2003	03	29
2002	09	24
2002	07	08
2002	05	06

Birth Dates with Ages Greater Than 21 Years

Year	Month	Day
2001	01	14
1999	11	22
1999	06	14
1998	12	27
1996	02	05
1995	12	18
1995	09	05
1995	03	21
1994	02	07
1993	07	30
1992	11	06
1992	05	14
1991	09	13
1990	02	23
1988	11	07
1988	01	19
1988	01	14
1987	08	17
1986	09	09
1986	04	11
1985	07	04
1985	04	30
1985	04	20
1984	07	25
1984	06	24
1983	10	20
1983	10	14
1982	12	09
1982	03	09
1981	03	01
1981	01	25
1980	10	15
1980	10	04
1980	06	21
1980	05	15
1979	02	02
1977	07	16
1977	07	07
1976	07	11
1976	04	17
1973	10	24
1973	07	03
1972	12	21
1972	11	05
1972	01	18
1971	11	01
1971	03	02
1970	06	26
1967	06	08
1967	02	11
1966	08	11
1965	07	12
1964	12	05
1964	08	07
1964	07	23
1964	06	28
1964	04	21