```
In [ ]: import numpy as np
In [ ]: import pandas as pd
         df = pd.read csv('database.csv', delimiter=';')
         print(df.head())
               Duration
                                  Date
                                         Pulse
                                                Maxpulse Calories
       0
           0
                     60
                          '2020/12/01'
                                           110
                                                      130
                                                               4091
       1
                          '2020/12/02'
                                           117
                                                      145
                                                               4790
           1
                     60
                          '2020/12/03'
       2
            2
                     60
                                           103
                                                      135
                                                               3400
       3
           3
                     45
                          '2020/12/04'
                                           109
                                                      175
                                                               2824
       4
                     45
            4
                          '2020/12/05'
                                           117
                                                      148
                                                               4060
In [ ]: print(df.head(10))
           ΙD
               Duration
                                         Pulse
                                                Maxpulse Calories
                                  Date
                          '2020/12/01'
       0
           0
                     60
                                           110
                                                      130
                                                               4091
                          '2020/12/02'
                                           117
                                                      145
                                                               4790
       1
           1
                     60
       2
            2
                     60
                          '2020/12/03'
                                           103
                                                      135
                                                               3400
       3
           3
                     45
                          '2020/12/04'
                                           109
                                                      175
                                                               2824
                          '2020/12/05'
       4
           4
                     45
                                           117
                                                      148
                                                               4060
       5
           5
                          '2020/12/06'
                                           102
                                                      127
                                                               3000
                     60
       6
           6
                     60
                          '2020/12/07'
                                           110
                                                      136
                                                               3740
       7
           7
                    450
                          '2020/12/08'
                                           104
                                                      134
                                                              2533
       8
           8
                     30
                          '2020/12/09'
                                           109
                                                      133
                                                              1951
       9
            9
                     60
                                                      124
                          '2020/12/10'
                                            98
                                                               2690
In [ ]: print(df.tail(10))
            ID
                Duration
                                   Date
                                          Pulse
                                                 Maxpulse Calories
       22
           22
                      45
                                                       119
                                                                2820
                                    NaN
                                            100
       23
           23
                      60
                           '2020/12/23'
                                            130
                                                       101
                                                                3000
       24
           24
                      45
                           '2020/12/24'
                                            105
                                                       132
                                                                2460
       25 25
                      60
                           '2020/12/25'
                                            102
                                                       126
                                                                3345
       26
           26
                      60
                               20201226
                                            100
                                                       120
                                                                2500
       27
           27
                      60
                           '2020/12/27'
                                             92
                                                       118
                                                                2410
       28
           28
                      60
                           '2020/12/28'
                                            103
                                                       132
                                                                NaN
       29
           29
                      60
                           '2020/12/29'
                                            100
                                                       132
                                                                2800
                           '2020/12/30'
                                            102
       30
           30
                      60
                                                       129
                                                                3803
       31
           31
                      60
                          '2020/12/31'
                                             92
                                                       115
                                                                2430
In [ ]: print(df['Calories'].tail(10))
              2820
       22
       23
              3000
       24
              2460
       25
              3345
       26
              2500
       27
              2410
       28
               NaN
       29
              2800
       30
              3803
       31
              2430
       Name: Calories, dtype: object
In [ ]: df_new = df
         df new['Calories'].fillna(0, inplace=True)
         print(df_new['Calories'].tail(10))
```

```
2820
22
23
      3000
24
      2460
25
      3345
26
      2500
27
      2410
28
         0
29
      2800
      3803
30
      2430
```

Name: Calories, dtype: object

C:\Users\Gilson\AppData\Local\Temp\ipykernel_6488\2083919503.py:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained as signment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.meth od({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to pe rform the operation inplace on the original object.

df_new['Calories'].fillna(0, inplace=True)

```
In []: df_new['Date'].fillna('1900/01/01', inplace=True)
    df_new['Date'].replace('1900/01/01', np.nan, inplace=True)
    df_new['Date'].replace('20201226', '2020/12/26', inplace=True)
    df_new['Date'] = pd.to_datetime(df['Date'], errors='coerce')
    print(df_new['Date'])
```

```
0
            2020-12-01
       1
            2020-12-02
       2
            2020-12-03
       3
            2020-12-04
       4
            2020-12-05
       5
            2020-12-06
       6
            2020-12-07
       7
            2020-12-08
       8
            2020-12-09
       9
            2020-12-10
       10
            2020-12-11
       11
            2020-12-12
       12
            2020-12-12
       13
            2020-12-13
       14
            2020-12-14
            2020-12-15
       15
       16
            2020-12-16
       17
            2020-12-17
       18
            2020-12-18
       19
            2020-12-19
       20
            2020-12-20
       21
            2020-12-21
       22
                    NaT
       23
            2020-12-23
       24
            2020-12-24
       25
            2020-12-25
       26
                    NaT
       27
            2020-12-27
       28
            2020-12-28
       29
            2020-12-29
       30
            2020-12-30
       31
            2020-12-31
       Name: Date, dtype: datetime64[ns]
In [ ]: print(df_new)
```

	ID	Duration	Date	Pulse	Maxpulse	Calories
0	0	60	2020-12-01	110	130	4091
1	1	60	2020-12-02	117	145	4790
2	2	60	2020-12-03	103	135	3400
3	3	45	2020-12-04	109	175	2824
4	4	45	2020-12-05	117	148	4060
5	5	60	2020-12-06	102	127	3000
6	6	60	2020-12-07	110	136	3740
7	7	450	2020-12-08	104	134	2533
8	8	30	2020-12-09	109	133	1951
9	9	60	2020-12-10	98	124	2690
10	10	60	2020-12-11	103	147	3293
11	11	60	2020-12-12	100	120	2507
12	12	60	2020-12-12	100	120	2507
13	13	60	2020-12-13	106	128	3453
14	14	60	2020-12-14	104	132	3793
15	15	60	2020-12-15	98	123	2750
16	16	60	2020-12-16	98	120	2152
17	17	60	2020-12-17	100	120	3000
18	18	45	2020-12-18	90	112	0
19	19	60	2020-12-19	103	123	3230
20	20	45	2020-12-20	97	125	2430 2
21	1	60	2020-12-21	108	131	3642
22	22	45	NaT	100	119	2820
23	23	60	2020-12-23	130	101	3000
24	24	45	2020-12-24	105	132	2460
25	25	60	2020-12-25	102	126	3345
26	26	60	NaT	100	120	2500
27	27	60	2020-12-27	92	118	2410
28	28	60	2020-12-28	103	132	0
29	29	60	2020-12-29	100	132	2800
30	30	60	2020-12-30	102	129	3803
31	31	60	2020-12-31	92	115	2430