Question 3

Question: Identify all patients with an invalid Date of Birth.

```
In [15]:
             # Change from string to datetime format
          charges['DOB'] = pd.to datetime(charges['DOB'])
In [16]:
             charges['DOB'].sort values().tail(45)
Out[16]: 2181
                1998-05-11
         330
               1999-08-02
         224
               2016-03-20
         354
               2016-12-14
         1631
               2018-06-25
         585
               2019-01-21
         1074
               2019-03-15
         2082
               2055-05-11
         1908
               2055-05-20
         2087
               2058-06-17
         613
               2060-06-05
         2021
               2061-07-25
         614
               2061-08-06
               2063-04-13
         1595
         1492
               2063-04-18
         704
               2063-04-27
         514
               2063-12-25
         1541
               2064-05-03
         1483
               2064-08-31
         1034
               2064-11-05
```

Answer: When changing the datatype from string to datetime, any row with a DOB before the year of 1969 get's incorrectly converted to future dates that aren't currently valid birthdays.

For example, 11/25/68 incorrectly becomes 2068-11-25, whereas 11/20/69 correctly becomes 1969-11-20.