

3. Get month numbers

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In [45]: 1 from datetime import datetime
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In [46]: 1 # Create function that will yield the corresponding number to the 'Billing Month'
2 def month_bill(x):
3     d = datetime.strptime(x, '%B')
4     if x != '?':
5         return int(d.strftime('%m'))
6     else:
7         return x
```

```
In [47]: 1 # Create new column with 'Billing Month' converted into corresponding number (int) if doesn't
2 # Using month_bill function from above
3 charges['Bill_Month_num'] = charges['Billing Month'].map(lambda x: month_bill(x) if x != '?'
```

```
In [48]: 1 # Create function that will yield the corresponding number to the 'Date In'
2 def month_datein(x):
3     # Using try/except here in case there are any weird strings that don't fit the format I
4     try:
5         d = datetime.strptime(x, '%m/%d/%y')
6         if x != '?':
7             return int(d.strftime('%m'))
8     except:
9         d = datetime.strptime(x, '%m/%d/%Y')
10        if x != '?':
11            return int(d.strftime('%m'))
```

```
In [49]: 1 # Create new column with 'Date In' converted into corresponding number (int) if doesn't equal
2 # Using month2 function from above
3 charges['Date_In_num'] = charges['Date In - 1'].map(lambda x: month_datein(x) if x != '?' el
```