

```

import pandas as pd
celebs = pd.read_csv("./data/famousbday.txt", sep=':', header=None,
names=['name', 'occup', 'bday'])
celeb_mbti = pd.read_csv("./data/myer-briggs.txt", header=None, sep=':', \
names=['mbti', 'name'])
df = pd.merge(celeb_mbti, celebs)
print df[:4]
print df.shape

```

	mbti	name	occup	bday
0	ENFJ	Abraham Maslow	American psychologist	1/4/1908
1	ENFJ	Ben Stiller	American actor	30/11/1965
2	ENFJ	Bob Saget	American actor	17/5/1956
3	ENFJ	Brenda Vaccaro	American actress	18/11/1939

(537, 4)

```

from datetime import datetime
def f(s):
    try:
        return datetime.strptime(s, '%d/%m/%Y').date().strftime('%Y%m%d')
    except:
        return None
print f('18/11/1939')
print f('18/11/1839')
df['bday2'] = df['bday'].apply(f)
print df[:4]
df.to_csv('/tmp/out.csv', sep=';')

```

	mbti	name	occup	bday	bday2
0	ENFJ	Abraham Maslow	American psychologist	1/4/1908	19080401
1	ENFJ	Ben Stiller	American actor	30/11/1965	19651130
2	ENFJ	Bob Saget	American actor	17/5/1956	19560517
3	ENFJ	Brenda Vaccaro	American actress	18/11/1939	19391118

```

import os
cols = []
lewi = os.listdir('./doc/details/lewi')
lewi = map(lambda x: 'lewi'+x.replace('.html', ''), lewi)
cols += lewi
millman = os.listdir('./doc/details/millman')
millman = map(lambda x: 'mill'+x.replace('.html', ''), millman)
millman.remove('millnineyearcycle')
cols += millman
chinese = os.listdir('./doc/details/chinese')
chinese = map(lambda x: x.replace('.html', ''), chinese)
cols += chinese
spiller = os.listdir('./doc/details/spiller')
spiller = map(lambda x: x.replace('.html', ''), spiller)
cols += spiller
for x in cols: df[x] = np.nan
print df.ix[7]

```

mbti	ENFJ
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```

name                                Martin Luther King Jr
occup      American civil rights leader, recipient of the...
bday                                15/1/1929
bday2                                19290115
lewi143                             NaN
lewi53                              NaN
lewi154                             NaN
lewi64                              NaN
lewi160                             NaN
lewi55                              NaN
lewi91                              NaN
lewi140                             NaN
lewi242                             NaN
lewi155                             NaN
...
Ox                                  NaN
Rabbit                             NaN
Horse                              NaN
Libra                              NaN
Scorpio                             NaN
Aries                              NaN
Cancer                             NaN
Pisces                              NaN
Gemini                              NaN
Virgo                              NaN
Aquarius                             NaN
Sagittarius                         NaN
Taurus                              NaN
Leo                                 NaN
Capricorn                           NaN
Name: 7, Length: 354, dtype: object

```

```

df2 = df[pd.isnull(df['bday2']) == False]
def enrich(x):
    res = mindmeld.calculate(x['bday2'])
    for lew in res['lewi']: x['lewi'+str(lew)] = 1
    if res['spiller']: x[res['spiller']] = 1
    if res['chinese']: x[res['chinese']] = 1
    return x

df3 = df2.apply(enrich, axis=1)
df3.to_csv('/tmp/out3.csv', sep=';')

```