Explode Synsets

1 Boilerplate

2 Imports

2.1 prod: NVM

```
from nvm import disp_df
from nvm import clean_str
from nvm.aux_str import CLEAN_STR_MAPPINGS_LARGE as maps0
from nvm.aux_str import REGEX_ABC_DASH_XYZ_ASTERISK as re0
from nvm.aux_pandas import fix_column_names
```

2.2 prod: Basics

```
import os
import pathlib
import numpy as np
import pandas as pd
import re
import json
import yaml
import srsly
import uuid
import random
import numbers
from collections import OrderedDict
from contextlib import ExitStack
import warnings
# warnings.warn("\nwarning")
from hashlib import md5
import humanfriendly as hf
import time
import datetime as dt
from pytz import timezone as tz
tz0 = tz("Europe/Berlin")
from glob import glob
from tqdm import tqdm
import logging
log0.info("DONE: basic imports")
```

2.3 prod: Extra imports and settings

```
from contexttimer import Timer
import textwrap

HOME = pathlib.Path.home()

tqdm.pandas()

import matplotlib
from matplotlib import pyplot as plt

# import seaborn as sns

# import plotly.graph_objects as go
# import plotly.express as px

# get_ipython().run_line_magic("matplotlib", "qt")
# get_ipython().run_line_magic("matplotlib", "inline")

with Timer() as elapsed:
    time.sleep(0.001)

log0.info(hf.format_timespan(elapsed.elapsed))

log0.info("DONE: extra imports and settings")
```

3 Extra Imports

3.1 prod: More extra imports and settings

```
log0.info("DONE: more extra imports and settings")
```

4 Process

4.1 prod: Load data

```
dir0 = "../../data/d0009_synsets-merged/"
dir0 = pathlib.Path(dir0)
# dir0.mkdir(mode=0o700, parents=True, exist_ok=True)
assert dir0.exists(), f"The data directory dir0={str(dir0)} not found!"

name0 = f"synsets-merged"
extn0 = ".pkl"

if0 = (dir0/name0).with_suffix(extn0)
log0.info(f"loading: {if0}...")
df0 = pd.read_pickle(if0)
log0.info(f"loading: {if0}... DONE")
```

```
df0["lemmas"] = df0["lemmas"].apply(lambda list0: [str(item0) for item0 in list0])
df0["target"] = df0.MEAN / 3
log0.info(f"{df0.target.mean() = }")
log0.info(f"{df0.target.min() = }")
log0.info(f''{df0.target.max() = }")
log0.info(f"{df0.target.std() = }")
log0.info(f"{df0.shape = }")
disp_df(df0.sample(n=8).sort_index())
I: loading: ../../data/d0009_synsets-merged/synsets-merged.pkl...
I: loading: ../../data/d0009_synsets-merged/synsets-merged.pkl... DONE
I: df0.target.mean() = 0.05918228939188339
I: df0.target.min() = -1.0
I: df0.target.std() = 0.3259159215888112
I: df0.shape = (9089, 9)
             TYPE
                               id0
                                       MEAN
                                                  STD
                                                        CNT
105
             src0 oewn-07042734-n 0.100000
                                             0.316228 10.0
                                                             [musical theme, theme, melod
913
             src0 oewn-08680308-n 0.000000
                                             0.447214 11.0
                                                                             [laboratory,
1531
             src0 oewn-00844276-s 0.000000
                                             1.632993
                                                        7.0
2529
             src0 oewn-02562363-v 0.375000
                                             1.187735
                                                        8.0
3815
             src0 oewn-00604693-v
                                                                       [train, develop, pr
                                   2.125000
                                             0.991031
                                                        8.0
4109
                   oewn-00583425-n 0.125000
                                             0.353553
                                                        8.0
                                                              [line, job, occupation, busi
             src0
4826
             src0 oewn-01668036-a 1.428571
                                             0.975900
                                                        7.0
7982
     src0_negLem oewn-00128351-n 1.625000 1.060660
                                                        8.0
```

4.2 Check lead

```
disp_df(
    df0[df0.lemmas.apply(lambda x: "lead" in x)],
    max_colwidth=222,
)
```

```
TYPE
                       id0
                                          STD
                                               CNT
                               MEAN
162
     src0 oewn-06664322-n 0.888889 0.927961
                                               9.0
                                                    [tip, lead, wind, confidential info
773
     src0 oewn-01259362-n 1.909091 0.943880
                                              11.0
1185 src0 oewn-00773677-v 1.000000
                                     1.414214
                                              11.0
1416 src0 oewn-05164526-n 1.000000
                                     0.755929
                                               8.0
1677
     src0
           oewn-05835238-n 1.125000
                                     0.991031
                                               8.0
1993 src0
                                               7.0
           oewn-02003455-v 1.285714
                                     0.487950
2046 src0 oewn-03610056-n 0.000000
                                     0.000000
                                               8.0
                                                            [lead, jumper cable, booste
2132 src0 oewn-02642040-v 0.666667
                                     0.866025
                                               9.0
2317 src0 oewn-14667645-n 0.250000
                                     0.707107
                                               8.0
                                                                               [lead,
2755 src0 oewn-02445109-v 1.857143
                                               7.0
                                    1.069045
3722 src0 oewn-02691775-v 0.888889
                                     0.927961
                                               9.0
                                                                               [run, ex
     src0 oewn-02693227-v 2.250000
3854
                                     0.462910
                                               8.0
4420 src0 oewn-08609721-n 1.375000 1.187735
                                               8.0
```

```
4530 src0 oewn-02003830-v 1.125000 0.834523
                                               8.0
                                                                       [take, guide, 1
5570 src0 oewn-02692313-v 0.625000 0.916125
                                               8.0
5907
     src0 oewn-01736802-v 2.250000 0.707107
                                               8.0
                                                                                   [1
6253 src0 oewn-06281532-n 0.500000
                                    1.069045
                                               8.0
6559 src0 oewn-01258857-n 0.555556 0.726483
                                               9.0
6661 src0 oewn-02561616-v 1.285714 0.951190
                                               7.0
                                                                                [lead,
```

4.3 Check fruitfully

```
disp_df(
    df0[df0.lemmas.apply(lambda x: "fruitfully" in x)],
    max_colwidth=222,
)
```

```
TYPE id0 MEAN STD CNT lemmas
1732 src0 oewn-00215173-r 2.0 0.92582 8.0 [fruitfully, profitably, productively] i
```

4.4 Check categories

```
print(f"{df0.lemmas.apply(len).mean()}")
print(f"{df0.lemmas.apply(len).std()}")
print(f"{df0.examples.apply(len).mean()}")
print(f"{df0.examples.apply(len).std()}")
```

- 2.03432720871383
- 1.6447636819370604
- 1.9046099680932995
- 1.2817403665854505

4.5 Check categories

```
TYPE
src0 6914
src0_negLem 872
ant2 436
ant2_negLem 436
ant0_negLem 431
Name: count, dtype: int64
```

4.6 Check examples

```
df0.examples.apply(lambda x: len(x)).value_counts().sort_index()
```

```
examples
      4563
1
2
      2541
3
      1114
4
       443
5
       217
6
       120
7
        41
8
        20
9
        10
10
        12
11
         7
13
         1
Name: count, dtype: int64
```

4.7 Cols

```
for col0 in df0.columns:
    print(f" \"{col0}\",")

"TYPE",
    "id0",
    "MEAN",
    "STD",
    "CNT",
    "lemmas",
    "definition",
    "examples",
    "target",
```

4.8 Copy source df

```
df1 = df0[df0.TYPE=="src0"].copy()
df1["definition"] = ""
df1["lemmas"] = [[]]*len(df1)

df2 = df0[df0.TYPE=="src0"].copy()
df4 = df0.copy()
df6 = df0.copy()
log0.info(f"{df2.shape = }")
log0.info(f"{df4.shape = }")
I: df2.shape = (6914, 9)
I: df4.shape = (9089, 9)
```

4.9 Explode examples in df1

```
df1a = df1.copy()
log0.info(f"raw: {df1a.shape = }")
df1a = df1a.explode(column=["examples"])
df1a["text"] = df1a["examples"]
log0.info(f"exp: {df1a.shape = }")
disp_df(df1a.sample(n=8).sort_index())
I: raw: df1a.shape = (6914, 9)
I: exp: df1a.shape = (12812, 10)
     TYPE
                                            STD
                                                   CNT lemmas definition
                        id0
                                 MEAN
556
      src0 oewn-01531310-v 1.300000
                                       0.948683
                                                  10.0
                                                           He finally could
     src0 oewn-00755631-s 1.333333
                                                   9.0
1629
                                       1.118034
                                                           she rei
1871 src0 oewn-02751207-v 0.000000
                                       0.500000
                                                   9.0
                                                           oewn-00430156-r 2.250000
2018
                                       0.886405
                                                   8.0
                                                           the federal gover
     src0
2899
     src0
            oewn-00969657-v 0.777778
                                       0.666667
                                                   9.0
                                                           publi
            oewn-00558544-s -1.125000
3840
     src0
                                       0.834523
                                                   8.0
                                                           4050
            oewn-00342215-v 1.428571
                                                   7.0
                                                           []
     src0
                                       0.975900
4894
            oewn-00796324-s 0.625000
                                                           []
     src0
                                       0.916125
                                                   8.0
                                                                                       overc
```

4.10 Explode lemmas in df2

df2a = df2.copy()

6336

6817

src0

src0

```
log0.info(f"raw: {df2a.shape = }")
df2a = df2a.explode(column=["lemmas"])
df2a["text"] = df2a.lemmas + ", " + df2a.definition
log0.info(f"exp: {df2a.shape = }")
disp_df(df2a.sample(n=8).sort_index())
I: raw: df2a.shape = (6914, 9)
I: exp: df2a.shape = (14813, 10)
      TYPE
                                              STD
                                                     CNT
                                                               lemmas
                         id0
                                   MEAN
663
      src0
            oewn-00582390-s -0.875000
                                         1.246423
                                                     8.0
                                                                        conspicuously and outr
                                                                crying
997
      src0
            oewn-01253673-v -1.000000
                                         1.054093
                                                    10.0
                                                                worry
                                                                                             to
2589
      src0
            oewn-00077383-n -1.000000
                                                     8.0
                                                                          an unintentional but
                                         1.195229
                                                                 trip
2907
      src0
            oewn-00845580-s 1.750000
                                         0.707107
                                                     8.0
                                                             emphatic
3813
            oewn-01688793-s -1.625000
      src0
                                         0.916125
                                                     8.0
                                                          disoriented
                                                                       having lost your beari
3992
            oewn-07224193-n 0.142857
                                         1.214986
                                                     7.0
      src0
                                                            exception
                                                                                       grounds
```

0.744024

0.951190

8.0

7.0

testimony

gymnastic

something th

4.11 Explode examples in df2

oewn-06660952-n 0.375000

oewn-00032610-s 1.714286

```
df2b = df2.copy()
log0.info(f"raw: {df2b.shape = }")
df2b = df2b.explode(column=["examples"])
df2b["text"] = df2b.examples
log0.info(f"exp: {df2b.shape = }")
disp_df(df2b.sample(n=8).sort_index())
I: raw: df2b.shape = (6914, 9)
I: exp: df2b.shape = (12812, 10)
      TYPE
                         id0
                                              STD
                                                  CNT
                                  MEAN
                                                                                lemmas
472
      src0
            oewn-03977398-n 0.000000
                                        0.000000
                                                  9.0
                                                                                 [ply]
                                                                                        one o
1586
     src0 oewn-01638779-s 0.375000
                                        0.517549
                                                   8.0
                                                                            [official]
1800
     src0 oewn-00440298-v 1.571429
                                        0.975900
                                                  7.0
                                                        [speed, speed up, accelerate]
2960 src0
            oewn-04707990-n 0.285714
                                                  7.0
                                                         [coating, finishing, finish]
                                        0.755929
                                                                                        a dec
2970
     src0
            oewn-01399805-a 0.000000
                                        0.000000
                                                  7.0
                                                                              [leaded]
            oewn-01929647-v -1.500000
4354
     src0
                                        1.069045
                                                  8.0
                                                                   [drift, err, stray]
                                                                                            wa
            oewn-01653333-s -0.125000
6403
     src0
                                        0.353553
                                                  8.0
                                                                              [junior]
                                                                                         incl
            oewn-05818587-n -0.555556 1.130388 9.0
6441
     src0
                                                                        [life, living]
                                                                                        the e
```

4.12 Explode lemmas in df4

```
df4a = df4.copy()
log0.info(f"raw: {df4a.shape = }")
df4a = df4a.explode(column=["lemmas"])
df4a["text"] = df4a.lemmas + ", " + df4a.definition
log0.info(f"exp: {df4a.shape = }")
disp_df(df4a.sample(n=8).sort_index())
I: raw: df4a.shape = (9089, 9)
I: exp: df4a.shape = (18490, 10)
             TYPE
                                         MEAN
                                                    STD CNT
                                                                       lemmas
                                               1.329160
1459
                   oewn-00430425-n -0.833333
                                                          6.0
                                                                     escapism
             src0
                                                                               an inclinatio
                                                                    guarantee
2796
                   oewn-00891076-v 1.555556
                                               0.726483
                                                         9.0
             src0
4719
             src0
                   oewn-04642461-n 1.250000
                                               1.035098 8.0
                                                                     activity
                                                                               the trait of
5400
             src0
                   oewn-00591299-v 1.250000
                                               1.281740
                                                        8.0
                                                                               grasp with th
                                                                        catch
5429
             src0
                   oewn-00814485-a 1.750000
                                               1.164965
                                                         8.0
                                                                        eager
                                                                               having or sho
7942
     src0_negLem oewn-00782933-a 0.625000
                                               0.916125
                                                         8.0
                                                               not indistinct
                                                                               easy to perce
8142
      src0_negLem
                   oewn-02101168-a 0.625000
                                               0.916125
                                                         8.0
                                                                 not insecure
8824
      ant0_negLem
                   oewn-02486512-v 0.000000
                                               1.732051
                                                         7.0
                                                               not legitimise
```

4.13 Explode examples in df4

```
df4b = df4.copy()
log0.info(f"raw: {df4b.shape = }")
df4b = df4b.explode(column=["examples"])
df4b["text"] = df4b.examples
log0.info(f"exp: {df4b.shape = }")
disp_df(df4b.sample(n=8).sort_index())
```

```
I: raw: df4b.shape = (9089, 9)
I: exp: df4b.shape = (17311, 10)
      TYPE
                        id0
                                MEAN
                                           STD
                                                CNT
                                                                                  lemmas
46
      src0
           oewn-04686906-n 0.125000
                                      0.640870
                                                8.0
                                                                    [visage, countenance]
2068 src0
           oewn-02235691-s 1.125000
                                      1.246423
                                                8.0
                                                                      [technical, expert]
2306
     src0
           oewn-00523831-v 0.000000
                                      0.000000
                                                7.0
                                                      [receive, get, incur, obtain, find]
3942 src0 oewn-00313654-s -0.714286
                                      1.704336
                                                7.0
                                                                     [reckless, heedless]
4510 src0 oewn-01961388-v -0.142857
                                      0.377964
                                                7.0
                                                                              [sit, ride]
4640 src0
           oewn-01632091-v -0.125000
                                      1.642081
                                                                                    [set]
6734 src0 oewn-02078305-v 0.666667 1.000000
                                                9.0
                                                                     [elude, evade, bilk]
7247 ant2 oewn-00635278-a -1.125000
                                           NaN NaN
                                                                       [incorrect, wrong]
```

4.14 Explode lemmas in df6

```
df6a = df6.copy()
log0.info(f"raw: {df6a.shape = }")
df6a = df6a.explode(column=["lemmas"])
df6a["text"] = df6a.lemmas + ", " + df6a.definition
log0.info(f"exp: {df6a.shape = }")
disp_df(df6a.sample(n=8).sort_index())
I: raw: df6a.shape = (9089, 9)
I: exp: df6a.shape = (18490, 10)
             TYPE
                                                     STD
                                                           CNT
                                                                      lemmas
                                id0
                                          MEAN
2188
             src0
                   oewn-02108248-s -1.000000
                                                1.290994
                                                           7.0
                                                                       petty
2308
             src0
                   oewn-00074163-r 0.250000
                                                0.707107
                                                           8.0
                                                                   primarily
                   oewn-02547977-v -0.111111
3014
             src0
                                                0.927961
                                                           9.0
                                                                    abide by
                                                                              act in accordan
3427
                    oewn-00120604-v 0.142857
                                                0.690066
                                                           7.0
             src0
                                                                        have
                                                                              cause to move;
4633
             src0
                    oewn-00241051-n 1.750000
                                                0.886405
                                                            8.0
                                                                  foundation
                                                                              the act of star
6349
             src0
                    oewn-02386868-v 1.000000
                                                1.069045
                                                           8.0
                                                                      assume
                                                                              take on titles,
                    oewn-01531310-v 1.300000
                                                                                       remove
7430
      src0_negLem
                                                0.948683
                                                         10.0
                                                                not deposit
```

0.462910

8.0

not large limited or belo

4.15 Explode examples in df6

ant0_negLem

8358

```
df6b = df6a.copy() # WARN: CAUTION: taking df6a NOT df6
log0.info(f"raw: {df6b.shape = }")
df6b = df6b.explode(column=["examples"])
df6b["text"] = df6b.lemmas + "; " + df6b.definition + "; " + df6b.examples
log0.info(f"exp: {df6b.shape = }")
disp_df(df6b.sample(n=8).sort_index())
I: raw: df6b.shape = (18490, 10)
I: exp: df6b.shape = (41313, 10)
```

oewn-01394303-a -0.250000

```
TYPE
                       id0
                                MF.A N
                                           STD
                                               CNT
                                                          lemmas
800
     src0 oewn-02006442-v 0.111111
                                      1.833333
                                               9.0
                                                           fire
                                                                       drive out or away
1619
     src0
           oewn-00305748-s 1.000000
                                      1.264911
                                                          rough
                                                                            violently ag
2622
     src0
           oewn-00005041-v 0.857143
                                      1.214986
                                                7.0
                                                         inspire
2829 src0 oewn-01644397-v 2.777778
                                     0.440959
                                               9.0
                                                      accomplish
3148 src0 oewn-04647089-n 0.250000
                                               8.0
                                      2.121320
                                                           rigor
4078 src0
           oewn-02473075-s -1.111111
                                      1.269296
                                               9.0
                                                                                 marked
                                                     questioning
           oewn-04652076-n 1.625000
5829 src0
                                     1.302470
                                               8.0
                                                            zeal
5948 src0
           oewn-01622528-s -0.125000 0.353553 8.0
                                                        manifest clearly revealed to the
```

4.16 Concatenate

I: df4x.shape = (35801, 2)

2186

```
cols0 = ["text", "target"]
df1x = df1a[cols0]
df2x = pd.concat([df2a[cols0], df2b[cols0]]).reset_index(drop=True)
df4x = pd.concat([df4a[cols0], df4b[cols0]]).reset_index(drop=True)
df6x = pd.concat([df6a[cols0], df6b[cols0]]).reset_index(drop=True)

log0.info(f"{df1x.shape = }")
log0.info(f"{df2x.shape = }")
log0.info(f"{df4x.shape = }")
log0.info(f"{df6x.shape = }")
disp_df(df1x.sample(n=8).sort_index(), max_colwidth=111)
disp_df(df2x.sample(n=8).sort_index(), max_colwidth=111)
disp_df(df4x.sample(n=8).sort_index(), max_colwidth=111)
disp_df(df6x.sample(n=8).sort_index(), max_colwidth=111)
disp_df(df6x.sample(n=8).sort_index(), max_colwidth=111)

I: df1x.shape = (12812, 2)
I: df2x.shape = (27625, 2)
```

```
I: df6x.shape = (59803, 2)
                                                                   text
                                                                           target
1858
                                 Who's running for treasurer this year? 0.416667
3312
                                                    a great work of art 0.458333
3388
                                                          a sharp knife 0.208333
3634
                             she fell to pieces after she lost her work -0.190476
3881
                                               brads are headless nails -0.041667
4398
     deductible losses on sales or exchanges of property are allowable 0.125000
5440
                          The police car pursued the suspected attacker 0.523810
5498
                                                        popular fiction 0.111111
```

```
firs 3310 trade, the commercial exchange (buying and selling on domestic or international mar 4014
```

root.

This adds

12625 employ, the state of bei 16703 23967 He spent th

25183

```
text
                                                                                target
509
       big top, a canvas tent to house the audience at a circus performance -0.030303
2238
                          organizational, of or relating to an organization 0.185185
                                           mystifying, of an obscure nature -0.041667
8838
16205
                                    not lasting, not permanent; not lasting -0.285714
20678
                                                       respiratory activity 0.222222
23724
                                        bold settlers on some foreign shore 0.666667
28403
                                                                 gentle rain -0.458333
29629
                                           Social relations impose courtesy 0.541667
9019
                                                           superiority, displaying a sense
14587
                                                       pull through, continue in existence
18850
                                                            activate; put in motion or move
22564
                                        rotter; a person who is deemed to be despicable or
33579
                                                              wise; improperly forward or b
      tension; (psychology) a state of mental or emotional strain or suspense; he suffere
41189
45651
                                                                             seethe; boil v
48211
                                                       head; to go or travel towards; We we
```

4.17 Save DATASETS (CAUTION)

```
import pathlib
import csv
import datetime as dt
from pytz import timezone as tz
tz0 = tz("Europe/Berlin")
dir0 = "../../data/d0010_training-data/"
dir0 = pathlib.Path(dir0)
dir0.mkdir(mode=0o700, parents=True, exist_ok=True)
assert dir0.exists(), f"The data directory dir0={str(dir0)} was not found!"
now0 = []
pfx0 = ["ft0x"]
sfx0 = []
bfn0 = dir0/"_".join(pfx0+now0+sfx0).replace(".", "_")
xtn0 = ".pkl"
ofn0 = bfn0.with_suffix(xtn0)
log0.info(f"saving: {ofn0}...")
df1x.to_pickle(ofn0)
xtn0 = ".csv"
ofn0 = bfn0.with_suffix(xtn0)
log0.info(f"saving: {ofn0}...")
df1x.to_csv(ofn0, index=False, quoting=csv.QUOTE_NONNUMERIC)
now0 = []
```

```
pfx0 = ["ft1x"]
sfx0 = []
bfn0 = dir0/"_".join(pfx0+now0+sfx0).replace(".", "_")
xtn0 = ".pkl"
ofn0 = bfn0.with_suffix(xtn0)
log0.info(f"saving: {ofn0}...")
df2x.to_pickle(ofn0)
xtn0 = ".csv"
ofn0 = bfn0.with_suffix(xtn0)
log0.info(f"saving: {ofn0}...")
df2x.to_csv(ofn0, index=False, quoting=csv.QUOTE_NONNUMERIC)
now0 = []
pfx0 = ["ft2x"]
sfx0 = []
bfn0 = dir0/"_".join(pfx0+now0+sfx0).replace(".", "_")
xtn0 = ".pkl"
ofn0 = bfn0.with_suffix(xtn0)
log0.info(f"saving: {ofn0}...")
df4x.to_pickle(ofn0)
xtn0 = ".csv"
ofn0 = bfn0.with_suffix(xtn0)
log0.info(f"saving: {ofn0}...")
df4x.to_csv(ofn0, index=False, quoting=csv.QUOTE_NONNUMERIC)
now0 = []
pfx0 = ["ft3x"]
sfx0 = []
bfn0 = dir0/"_".join(pfx0+now0+sfx0).replace(".", "_")
xtn0 = ".pkl"
ofn0 = bfn0.with_suffix(xtn0)
log0.info(f"saving: {ofn0}...")
df6x.to_pickle(ofn0)
xtn0 = ".csv"
ofn0 = bfn0.with_suffix(xtn0)
log0.info(f"saving: {ofn0}...")
df6x.to_csv(ofn0, index=False, quoting=csv.QUOTE_NONNUMERIC)
log0.info("DONE")
```

I: saving: ../../data/d0010_training-data/ft0x.pkl...
I: saving: ../../data/d0010_training-data/ft0x.csv...

```
I: saving: ../../data/d0010_training-data/ft1x.pkl...
I: saving: ../../data/d0010_training-data/ft1x.csv...
I: saving: ../../data/d0010_training-data/ft2x.pkl...
I: saving: ../../data/d0010_training-data/ft2x.csv...
I: saving: ../../data/d0010_training-data/ft3x.pkl...
I: saving: ../../data/d0010_training-data/ft3x.csv...
I: DONE
```

4.18 Checkups

```
log0.info(f"{df0.target.mean() = }")
log0.info(f"{df0.target.std() = }")
log0.info(f"{df0.target.min() = }")
log0.info(f"{df0.target.max() = }")
```

```
I: df0.target.mean() = 0.05918228939188339
I: df0.target.std() = 0.3259159215888112
I: df0.target.min() = -1.0
I: df0.target.max() = 0.958333333333333334
```