# Arrhythmia Detection EDA

August 6, 2023

## 1 MIT-BIH Arrhythmia Data Analysis

#### 1.1 Overview

- Set of over 4000 long-term Holter Recordings
- Obtained by the Beth Israel Hospital Arrhythmia Laboratory
- Obtained betwee 1975 and 1979
- 60% of the recordings were obtainer from inpatients
- 23 records in total chosen from id 100-124 inclusive (Group A)
- 25 records chosen from ids 200-234 inclusive (Group B)
- Total there are 48 records
- Each record is 30 minutes long
- 2 signals recorded
- Group B records were chosen to include complex ventricular, junctional and supraventricular arrhythmias and conduction abnormalities
- Subjects were 25 men aged 32 to 89 years, 22 women aged 23 to 89 years.
- Records 201 and 202 came from the same male subject

#### 1.2 ECG Lead Configuration

- Most records the first signal seen is the modified limb lead II(MLII) obtained by placing the electrodes on the chest
- The lower signal is a modified lead V1
- QRS Complexes are seen in the MLII signal only
- Normal beats are difficult to discern in the lower signal

#### 1.3 Exceptions

- Record 114 the signals are reversed i.e MLII is the second signal.
- Records 102 and 104 do not have MLII signal because of surgical dressing, modified lead V5 used for the upped signal.
- 4 records (102,104,107,217) include paced beats

#### 1.4 Digitisation process

The digitization process happend at 360 Hz The ADCs were unipolar, with 11 bit resolution ranging from +5 mv to -5 mV Sample values range from 0 to 2047 inclusive with a value of 1024 corresponding to 0

A number of frequency-domain artifacts have been identified and related to specific mechanical components of the recorders and the playback unit:

Frequency(Hz)	Source
0.042	Recorder pressure wheel
0.083	Playback unit capstan
0.090	Recorder capstan
0.167	Playback unit capstan
0.10 - 0.18	Takeup reel
0.20 - 0.36	Supply reel

Bit Depth(n): 11Levels(2n):2048

Voltage Range(r): 10mV
Step Size(delta): 4.88x10-3mV
Maximum Voltage: 5mV
Minimum Voltage: -5mV

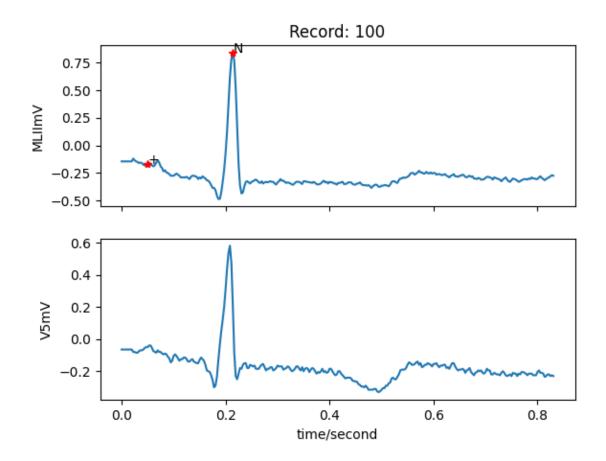
#### Calculations:

Index = Round((Xalpha - Xmin)/delta) # Calculate the corresponding discrete value for a voltage
Xalpha = Xmin + (Index\*delta) # Calculate the corresponding voltage for a discrete value.

## 1.5 Exploration

#### 1.5.1 Example Record

```
[4]: dr.plot_record("100", 300)
```



```
[5]: from utils.common_utils import load_patient_ids
[6]:
    patient_ids = load_patient_ids(path)
     patient_ids.remove("102-0")
[7]:
[8]:
     patient_ids
[8]: ['100',
      '101',
      '102',
      '103',
      '104',
      '105',
      '106',
      '107',
      '108',
      '109',
      '111',
      '112',
```

```
'113',
        '114',
        '115',
        '116',
        '117',
        '118',
        '119',
        '121',
        '122',
        '123',
        '124',
        '200',
        '201',
        '202',
        '203',
        '205',
        '207',
        '208',
        '209',
        '210',
        '212',
        '213',
        '214',
        '215',
       '217',
        '219',
        '220',
        '221',
        '222',
        '223',
        '228',
        '230',
        '231',
        '232',
        '233',
        '234']
 [9]: len(patient_ids)
 [9]: 48
     1.5.2 Loading all patient records
[10]: records = dr.load_records(record_ids=patient_ids)
```

Counting annotations in all records

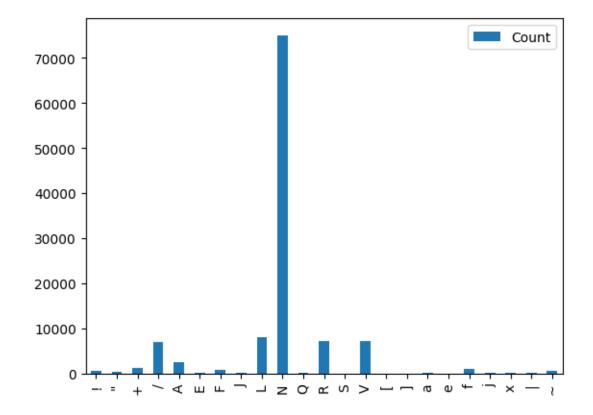
```
[11]: from data_set_utils.data_reader import count_annotations
[12]: count_tuple = count_annotations(records)

[13]: import pandas as pd
   import numpy as np
   import matplotlib.pyplot as plt
   import seaborn as sns

[14]: df = pd.DataFrame(data={"Count": count_tuple[1]}, index=count_tuple[0])

[15]: df.plot(kind="bar")

[15]: <Axes: >
```



```
[16]: patient_data = dict()
   patient_data["id"] = patient_ids

[17]: for i in count_tuple[0]:
        patient_data[i] = [0] * len(patient_ids)

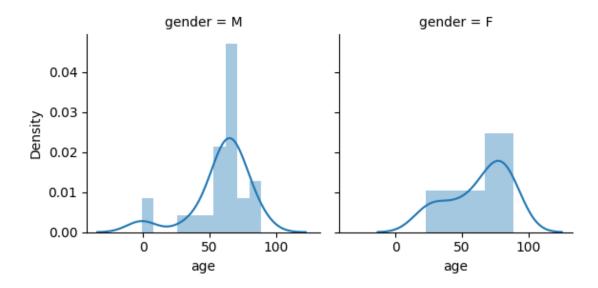
[18]: patient_data_frame = pd.DataFrame(data=patient_data)
```

```
[19]: patient_data_frame.set_index("id", inplace=True)
[20]: ages = []
      gender = []
      leads = []
      for record_id in patient_data["id"]:
          ecg_record = dr.load_record(record_id)
          ages.append(ecg_record.patient_age())
          gender.append(ecg_record.patient_gender())
          leads.append(ecg_record.leads())
          record_annotation_count_tuple = count_annotations([ecg_record])
          for symbol, count in zip(
              record_annotation_count_tuple[0], record_annotation_count_tuple[1]
          ):
              patient_data_frame.loc[record_id][symbol] = count
[21]: patient_data_frame["age"] = np.array(ages)
[22]: patient_data_frame["gender"] = np.array(gender)
[23]: lead_matrix = np.array(leads)
      patient_data_frame["First lead"] = lead_matrix[:, 0]
      patient_data_frame["Second Lead"] = lead_matrix[:, 1]
[24]: | g = sns.FacetGrid(data=patient_data_frame, col="gender")
      g.map(sns.distplot, "age")
     /home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848:
     UserWarning:
     `distplot` is a deprecated function and will be removed in seaborn v0.14.0.
     Please adapt your code to use either `displot` (a figure-level function with
     similar flexibility) or `histplot` (an axes-level function for histograms).
     For a guide to updating your code to use the new functions, please see
     https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
       func(*plot_args, **plot_kwargs)
     /home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848:
     UserWarning:
     'distplot' is a deprecated function and will be removed in seaborn v0.14.0.
     Please adapt your code to use either `displot` (a figure-level function with
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```

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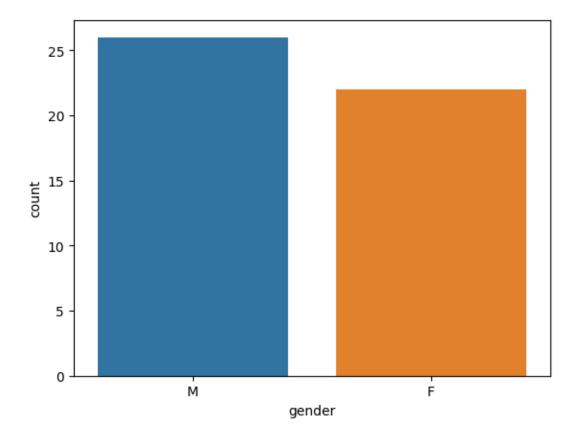
func(\*plot\_args, \*\*plot\_kwargs)

[24]: <seaborn.axisgrid.FacetGrid at 0x7efe8267f700>



[25]: sns.countplot(data=patient\_data\_frame, x="gender")

[25]: <Axes: xlabel='gender', ylabel='count'>



```
[26]: g = sns.FacetGrid(data=patient_data_frame, col="gender")
g.map(sns.distplot, "N")
```

/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

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```
func(*plot_args, **plot_kwargs)
/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848:
UserWarning:
```

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

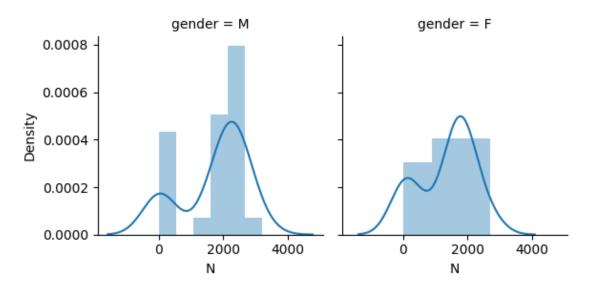
Please adapt your code to use either `displot` (a figure-level function with

similar flexibility) or `histplot` (an axes-level function for histograms).

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func(\*plot\_args, \*\*plot\_kwargs)

## [26]: <seaborn.axisgrid.FacetGrid at 0x7efe82f58d00>



[27]: g = sns.FacetGrid(data=patient\_data\_frame, col="gender")
g.map(sns.distplot, "/")

/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848: UserWarning:

'distplot' is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

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func(\*plot\_args, \*\*plot\_kwargs)
/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848:
UserWarning:

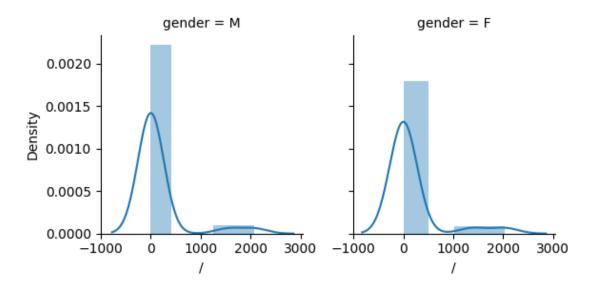
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

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For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

func(\*plot\_args, \*\*plot\_kwargs)

[27]: <seaborn.axisgrid.FacetGrid at 0x7efe82ea76a0>



```
[28]: g = sns.FacetGrid(data=patient_data_frame, col="gender")
g.map(sns.distplot, "R")
```

/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848: UserWarning:

'distplot' is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

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```
func(*plot_args, **plot_kwargs)
/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848:
UserWarning:
```

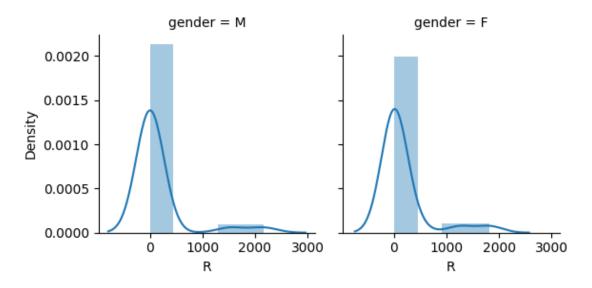
'distplot' is a deprecated function and will be removed in seaborn v0.14.0.

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For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

func(\*plot\_args, \*\*plot\_kwargs)

[28]: <seaborn.axisgrid.FacetGrid at 0x7efea48ffbb0>



```
[29]: g = sns.FacetGrid(data=patient_data_frame, col="gender")
g.map(sns.distplot, "L")
```

/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

```
func(*plot_args, **plot_kwargs)
/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848:
UserWarning:
```

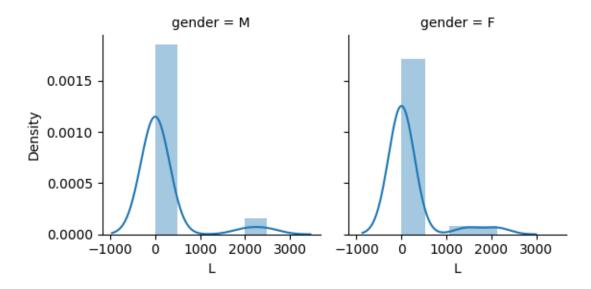
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

func(\*plot\_args, \*\*plot\_kwargs)

#### [29]: <seaborn.axisgrid.FacetGrid at 0x7efe82d67550>



[30]: g = sns.FacetGrid(data=patient\_data\_frame, col="gender") g.map(sns.distplot, "V")

/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

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func(\*plot\_args, \*\*plot\_kwargs)
/home/alton/.local/lib/python3.9/site-packages/seaborn/axisgrid.py:848:
UserWarning:

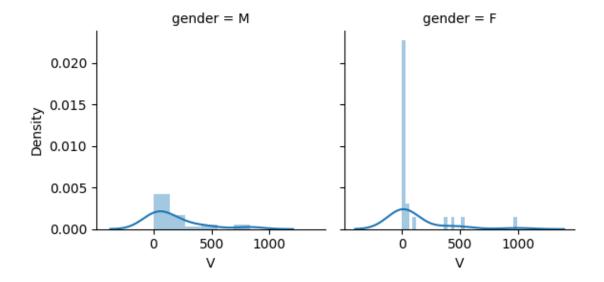
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

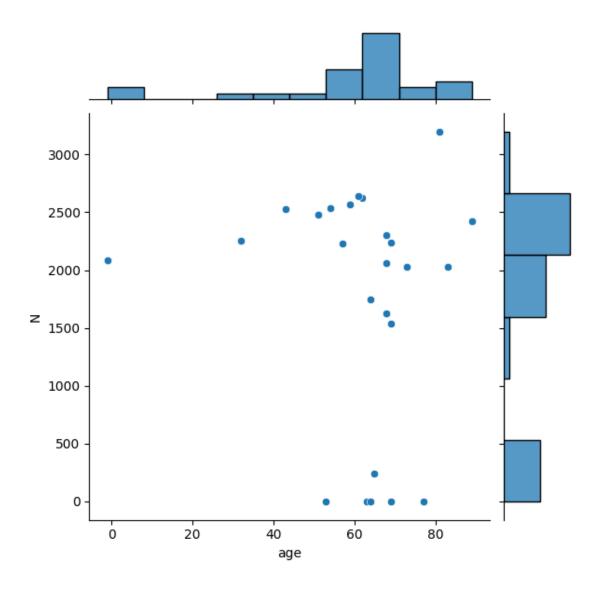
For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

func(\*plot\_args, \*\*plot\_kwargs)

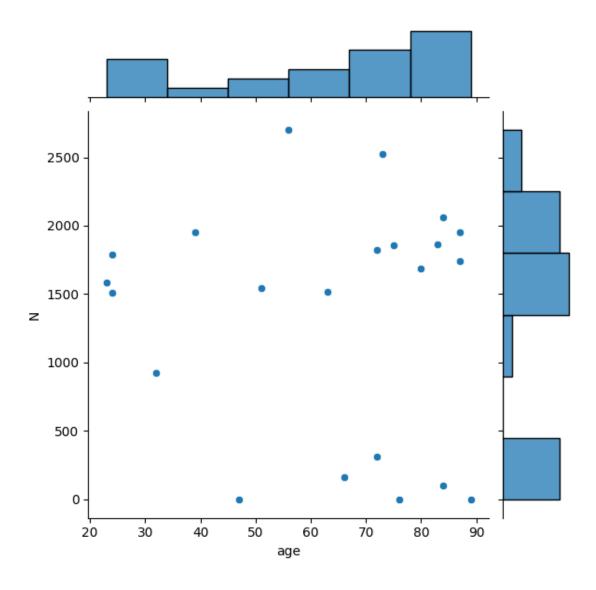
[30]: <seaborn.axisgrid.FacetGrid at 0x7efe82b6b130>



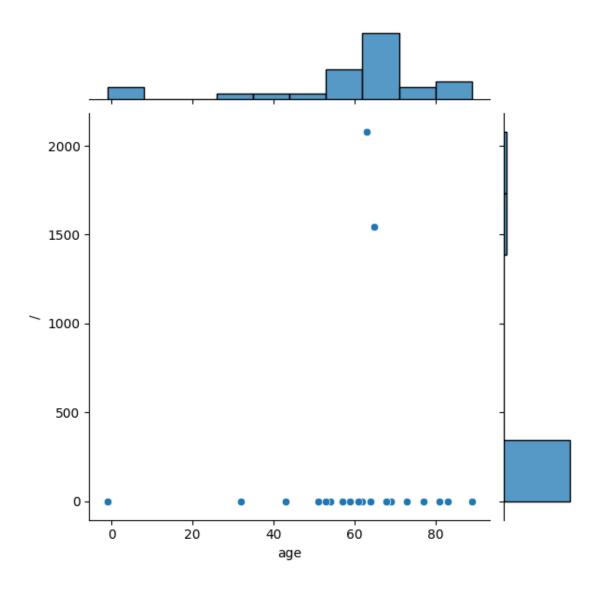
[31]: <seaborn.axisgrid.JointGrid at 0x7efe82b71e80>



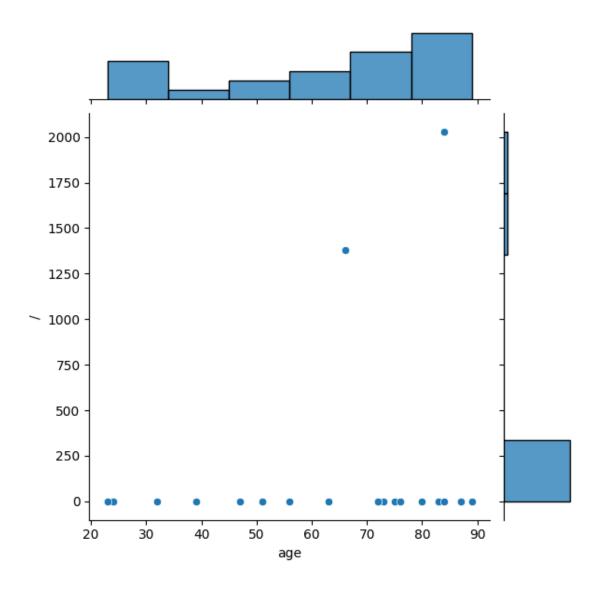
[32]: <seaborn.axisgrid.JointGrid at 0x7efe82999790>



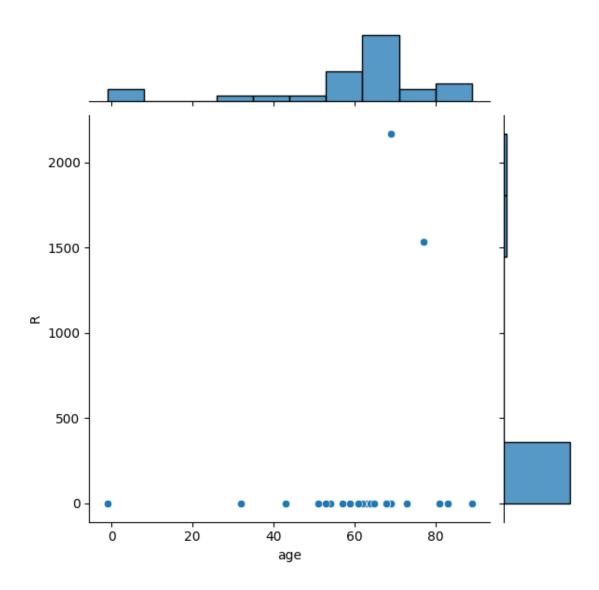
[33]: <seaborn.axisgrid.JointGrid at 0x7efe82813f40>



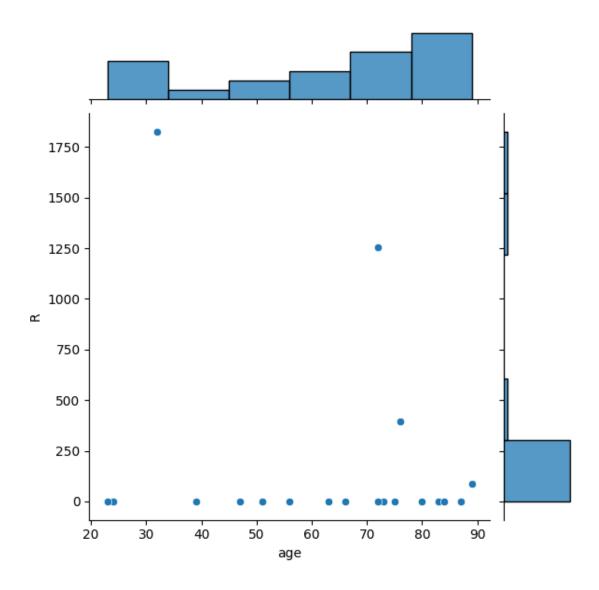
[34]: <seaborn.axisgrid.JointGrid at 0x7efe8066b970>



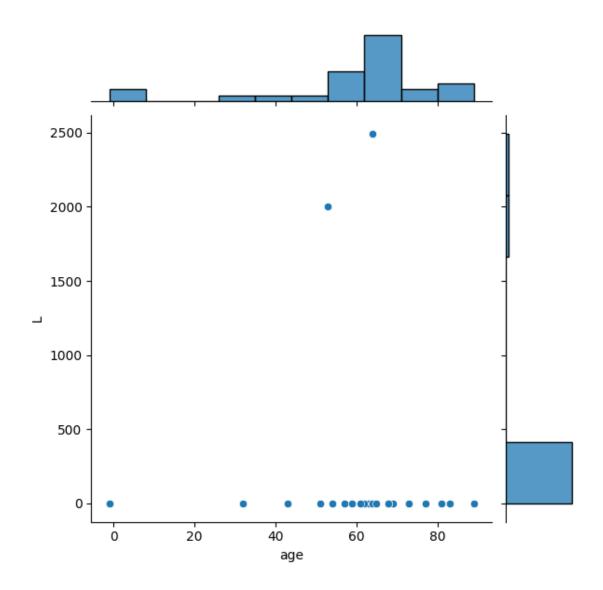
[35]: <seaborn.axisgrid.JointGrid at 0x7efe827263d0>



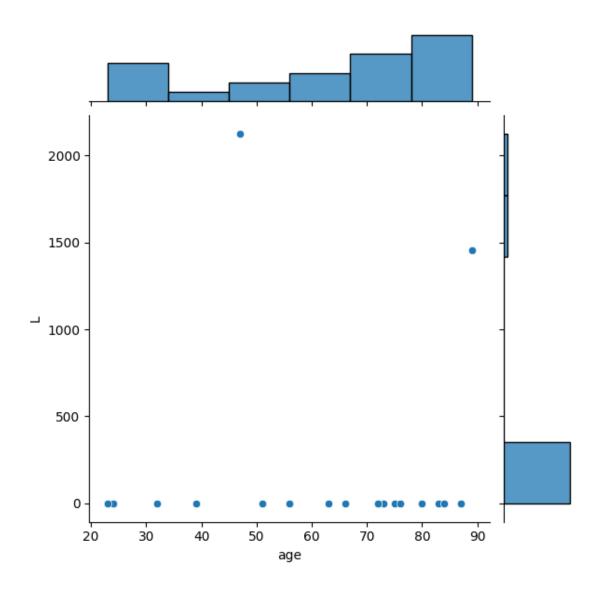
[36]: <seaborn.axisgrid.JointGrid at 0x7efe8039f670>



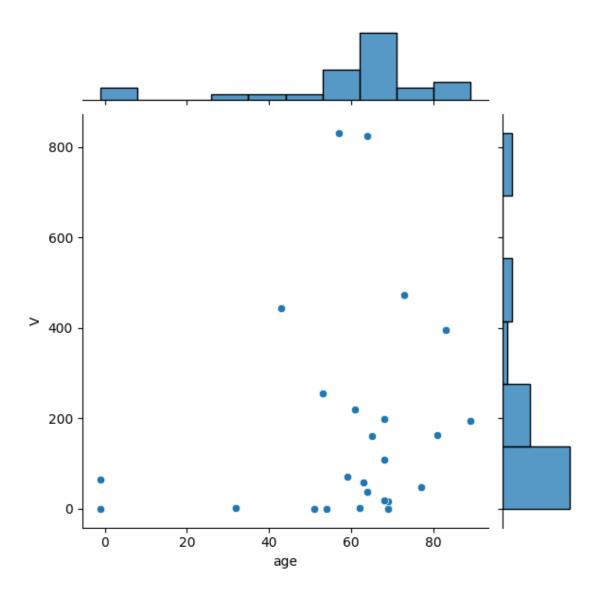
[37]: <seaborn.axisgrid.JointGrid at 0x7efe8020f370>



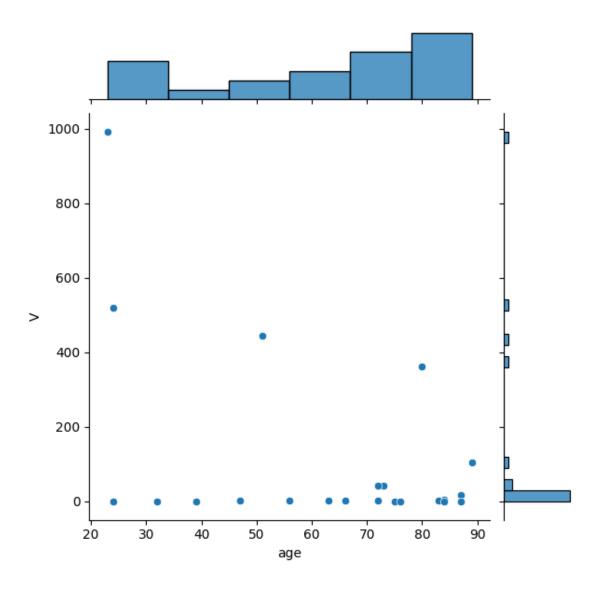
[38]: <seaborn.axisgrid.JointGrid at 0x7efe801ff2e0>



[39]: <seaborn.axisgrid.JointGrid at 0x7efe7ffec160>

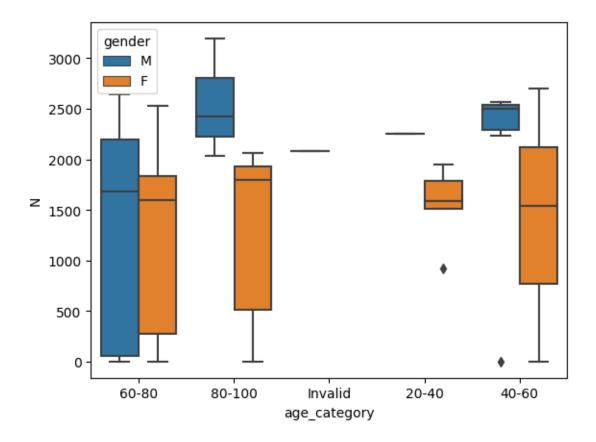


[40]: <seaborn.axisgrid.JointGrid at 0x7efe82726df0>



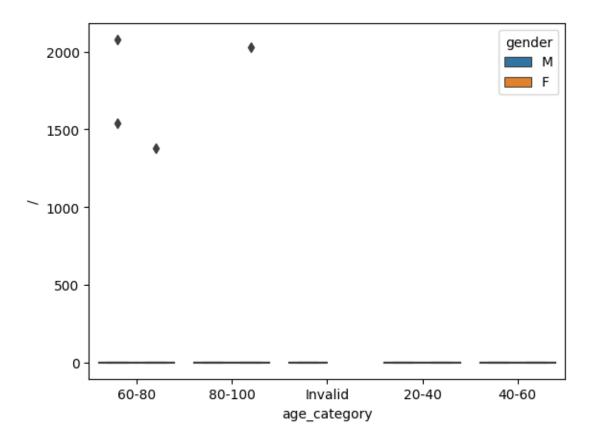
```
[41]: def categorize_age(age):
    if age > 0 and age <= 20:
        return "0-20"
    elif age > 20 and age <= 40:
        return "20-40"
    elif age > 40 and age <= 60:
        return "40-60"
    elif age > 60 and age <= 80:
        return "60-80"
    elif age > 80 and age <= 100:
        return "80-100"
    else:
        return "Invalid"</pre>
```

```
patient_data_frame["age_category"] = patient_data_frame["age"].
       ⇔apply(categorize_age)
[42]: patient_data_frame.head()
[42]:
                            A E F J L
                                               N
                                                          j x
                                                                        age
                                                                             gender \
      id
      100 0
              0
                        0
                           33
                               0
                                  0
                                      0
                                         0
                                            2239
                                                       0
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      101 0
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      102 0
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                  5
                     2028
                               0
                                  0
                                     0
                                              99
                                                      56
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                                                                         84
                                                                                  F
      103 0
              0
                  1
                        0
                            2
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                                  0
                                     0
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      104 0 0
                 45
                    1380
                               0
                                  0
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                                                                   37
                                                                                  F
                            0
                                         0
                                                             0
                                                                         66
           First lead Second Lead age_category
      id
      100
                 MLII
                                ۷5
                                            60-80
      101
                                            60-80
                 MLII
                                ۷1
      102
                   ۷5
                                V2
                                           80-100
      103
                 MLII
                                ۷2
                                          Invalid
      104
                   ۷5
                                            60-80
                                ٧2
      [5 rows x 28 columns]
[43]: sns.boxplot(data=patient_data_frame, x="age_category", y="N", hue="gender")
[43]: <Axes: xlabel='age_category', ylabel='N'>
```

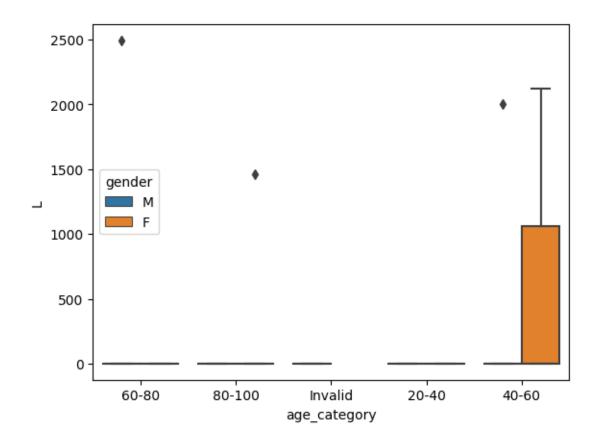


```
[44]: sns.boxplot(data=patient_data_frame, x="age_category", y="/", hue="gender")
```

[44]: <Axes: xlabel='age\_category', ylabel='/'>

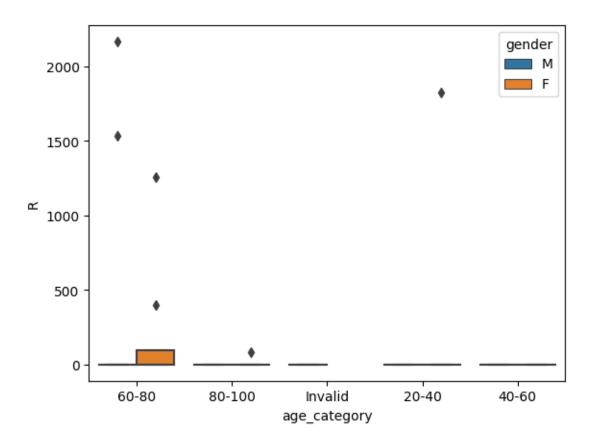


[45]: <Axes: xlabel='age\_category', ylabel='L'>



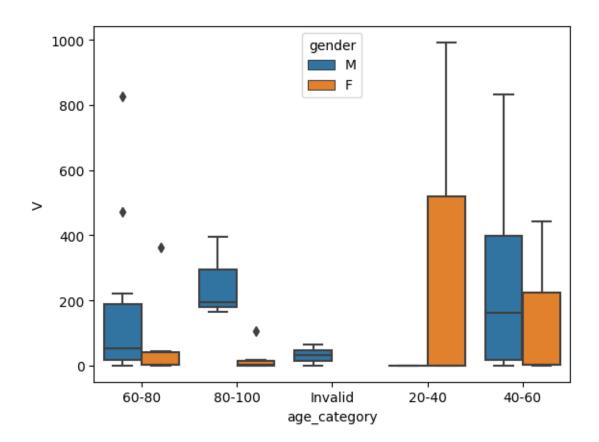
```
[46]: sns.boxplot(data=patient_data_frame, x="age_category", y="R", hue="gender")
```

[46]: <Axes: xlabel='age\_category', ylabel='R'>



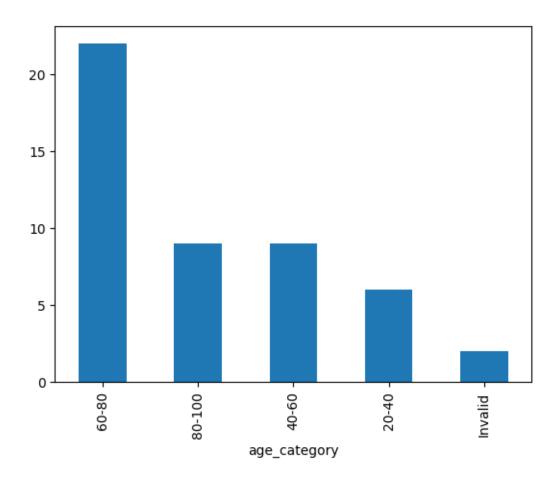
```
[47]: sns.boxplot(data=patient_data_frame, x="age_category", y="V", hue="gender")
```

[47]: <Axes: xlabel='age\_category', ylabel='V'>



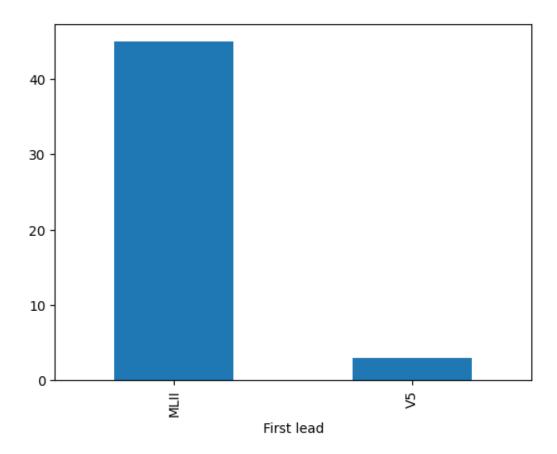
```
[48]: patient_data_frame["age_category"].value_counts().plot(kind="bar")
```

[48]: <Axes: xlabel='age\_category'>



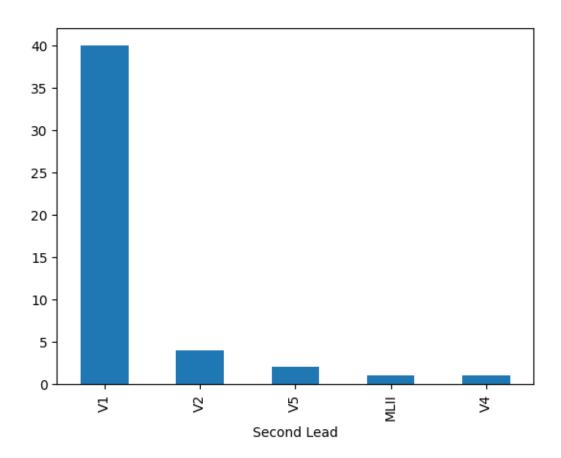
```
[49]: patient_data_frame["First lead"].value_counts().plot(kind="bar")
```

[49]: <Axes: xlabel='First lead'>



```
[50]: patient_data_frame["Second Lead"].value_counts().plot(kind="bar")
```

[50]: <Axes: xlabel='Second Lead'>



## 1.6 Data Preprocessing

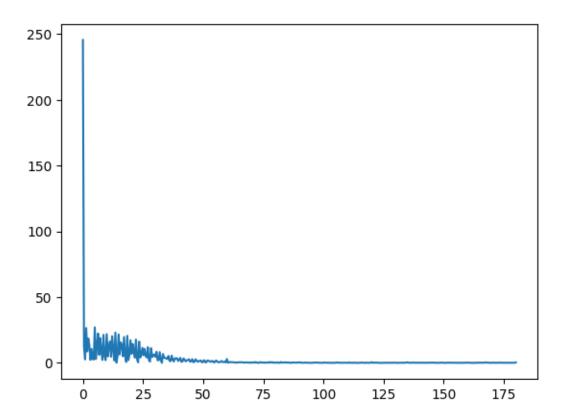
## 1.6.1 Frequencies Present in the Signal

```
[53]: from scipy.fft import rfft, rfftfreq

[54]: yf = rfft(record100_raw[:800, 0])
    xf = rfftfreq(len(record100_raw[:800, 0]), 1 / 360)
```

```
[55]: plt.plot(xf, np.abs(yf))
```

[55]: [<matplotlib.lines.Line2D at 0x7efe7f598700>]

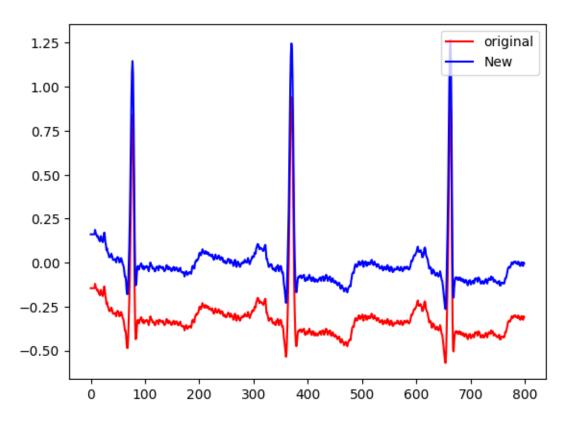


The human ECG spectrum covers the frequency range  $0.05~\mathrm{Hz}$  -  $100~\mathrm{Hz}$ , with the main part of the QRS complex being in the range  $0.5~\mathrm{Hz}$  -  $45~\mathrm{Hz}$ . Most of the time the ECG signal is overlaid by the mains frequency of  $50~\mathrm{Hz}/60~\mathrm{Hz}$ .

## 1.6.2 Removing Baseling Wandering

```
[59]: plt.plot(lead_II_signal[:800], color="red")
    plt.plot(new_signal_after_removal_of_baseline_wandering[:800], color="blue")
    plt.legend(("original", "New"))
```

[59]: <matplotlib.legend.Legend at 0x7efe7f56fee0>

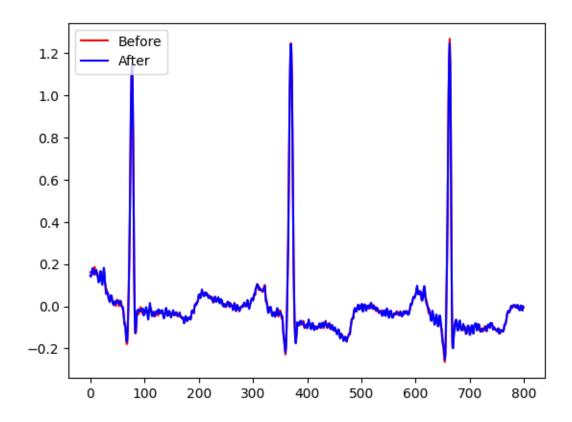


## 1.6.3 Removing Power Line Interference

```
[60]: from utils.common_utils import remove_powerline_interference
    new_signal_after_removal_p_intr = remove_powerline_interference(
        50, new_signal_after_removal_of_baseline_wandering, 360, 2
)

[61]: plt.plot(new_signal_after_removal_of_baseline_wandering[:800], color="red")
    plt.plot(new_signal_after_removal_p_intr[:800], color="blue")
    plt.legend(("Before", "After"))
```

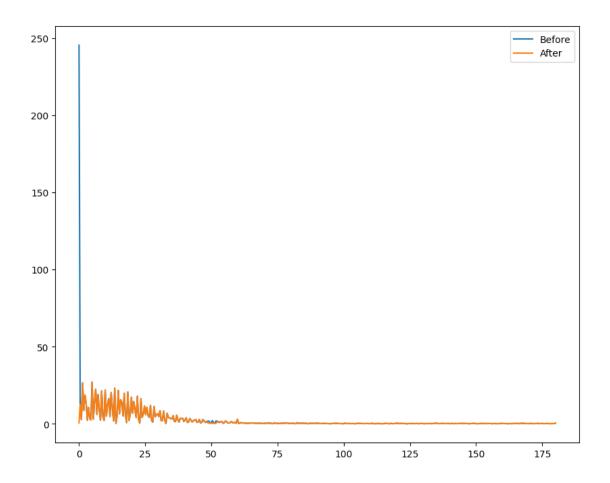
[61]: <matplotlib.legend.Legend at 0x7efe7fdfbb50>



```
[62]: yf_after = rfft(new_signal_after_removal_p_intr[:800])
xf_after = rfftfreq(len(new_signal_after_removal_p_intr[:800]), 1 / 360)

[63]: plt.figure(figsize=(10, 8))
plt.plot(xf, np.abs(yf))
plt.plot(xf_after, np.abs(yf_after))
plt.legend(("Before", "After"))
```

[63]: <matplotlib.legend.Legend at 0x7efe7f6cbb50>

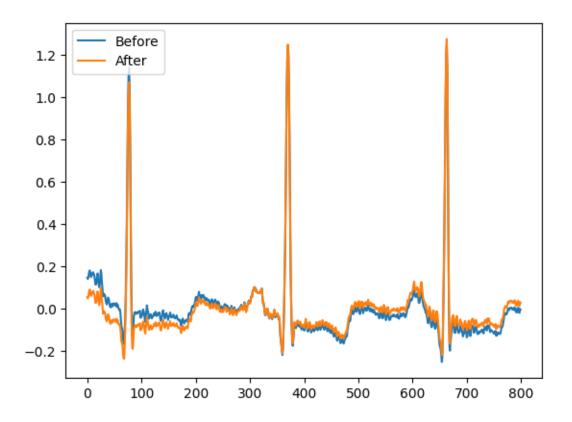


## 1.6.4 High Pass Filter at 0.5 Hz

```
[64]: from utils.common_utils import high_pass_filter
[65]: filteredHighPass = high_pass_filter(new_signal_after_removal_p_intr, 0.5)

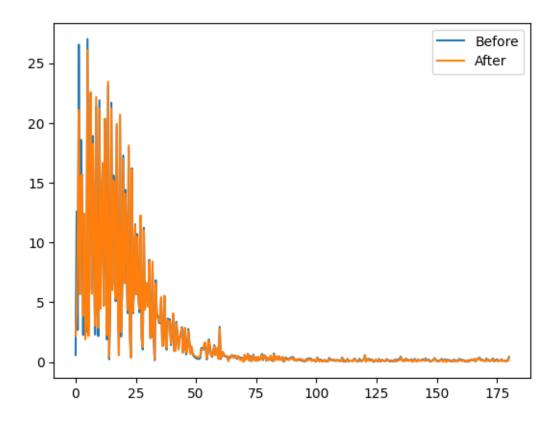
[66]: plt.plot(new_signal_after_removal_p_intr[:800])
    plt.plot(filteredHighPass[:800])
    plt.legend(("Before", "After"))
```

[66]: <matplotlib.legend.Legend at 0x7efe7f389c40>



```
[67]: yf_before = rfft(new_signal_after_removal_p_intr[:800])
    xf_before = rfftfreq(len(new_signal_after_removal_p_intr[:800]), 1 / 360)
    yf_after = rfft(filteredHighPass[:800])
    xf_after = rfftfreq(len(filteredHighPass[:800]), 1 / 360)
[68]: plt.plot(xf_before, np.abs(yf_before))
    plt.plot(xf_after, np.abs(yf_after))
    plt.legend(("Before", "After"))
```

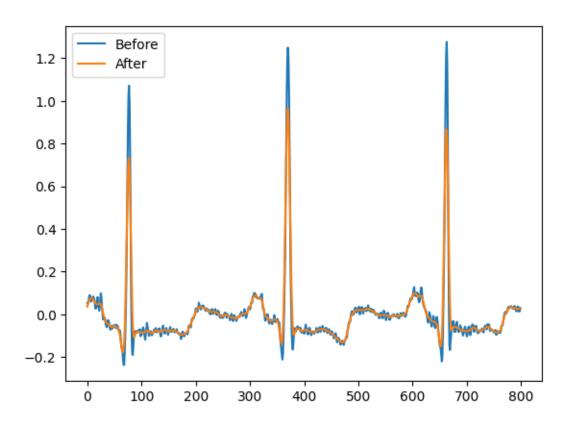
[68]: <matplotlib.legend.Legend at 0x7efe7f325d30>



## 1.6.5 Low Pass Filter with Convolution

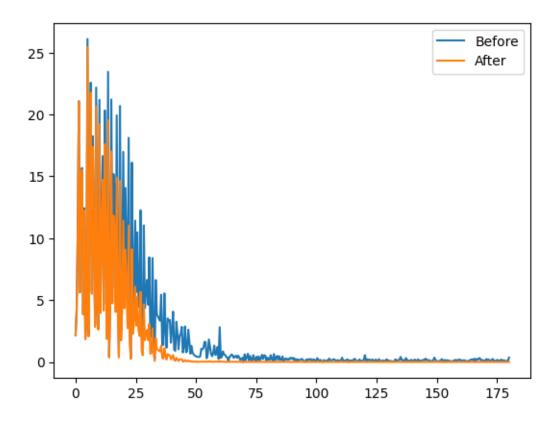
```
[69]: from utils.common_utils import hanning_filter
[70]: filteredLowPass = hanning_filter(filteredHighPass, 15)
[71]: plt.plot(filteredHighPass[:800])
    plt.plot(filteredLowPass[:800])
    plt.legend(("Before", "After"))
```

[71]: <matplotlib.legend.Legend at 0x7efe7f2b40d0>



```
[72]: yf_before = rfft(filteredHighPass[:800])
xf_before = rfftfreq(len(filteredHighPass[:800]), 1 / 360)
yf_after = rfft(filteredLowPass[:800])
xf_after = rfftfreq(len(filteredLowPass[:800]), 1 / 360)
[73]: plt.plot(xf_before, np.abs(yf_before))
plt.plot(xf_after, np.abs(yf_after))
plt.legend(("Before", "After"))
```

[73]: <matplotlib.legend.Legend at 0x7efe7f1d6370>



## 1.6.6 Segmentation

```
[74]: from data_set_utils.data_generator import DataMaker
[75]: dm = DataMaker(records, 50, 360, "MLII", 15, 0.5, 2, 100, 100)
[76]: ecg_segments = dm.perform_segmentation(symbols_of_interest)

No MLII for 102
No MLII for 104
```

## 1.6.7 Data Frame Preparation

```
[77]: readings = list()
  record_ids = list()
  segment_starts = list()
  segment_ends = list()
  annotation_class = list()
[78]: for segment in ecg_segments:
```

if len(segment.get\_readings()) == 200 and any(

```
[ann.get_symbol() in symbols_of_interest for ann in segment.

    get_annotations()]
  ):
     readings.append(segment.get readings())
      record_ids.append(segment.get_record_id())
      start, stop = segment.get segment positions()
      segment starts.append(start)
      segment ends.append(stop)
      for i, ann in enumerate(segment.get_annotations()):
         if ann.get_symbol() in symbols_of_interest:
             annotation_class.append(ann.get_symbol())
             break
  else:
      print(f"Skipping {segment.get_record_id()}")
      print(f"Size:{len(segment.get_readings())}")
     print(f"Segment:{segment.get_segment_positions()}")
     print(f" Annotations:{[ann.get_symbol() for ann in segment.
⇔get_annotations()]}")
```

```
Skipping 100
Size:200
Segment: (1959, 2159)
Annotations:['A']
Skipping 100
Size:200
Segment: (66706, 66906)
Annotations:['A']
Skipping 100
Size:200
Segment: (74923, 75123)
Annotations:['A']
Skipping 100
Size:200
Segment: (99518, 99718)
Annotations:['A']
Skipping 100
Size:200
Segment: (128023, 128223)
Annotations:['A']
Skipping 100
Size:200
```

```
Segment: (170654, 170854)
Annotations:['A']
Skipping 100
Size:200
Segment: (279490, 279690)
Annotations: ['A']
Skipping 100
Size:200
Segment: (305609, 305809)
Annotations:['A']
Skipping 100
Size:200
Segment: (307683, 307883)
Annotations:['A']
Skipping 100
Size:200
Segment: (312726, 312926)
Annotations: ['A']
Skipping 100
Size:200
Segment: (317721, 317921)
Annotations:['A']
Skipping 100
Size:200
Segment: (319137, 319337)
Annotations:['A']
Skipping 100
Size:200
Segment: (346719, 346919)
Annotations:['A']
Skipping 100
Size:200
Segment: (351396, 351596)
Annotations:['A']
Skipping 100
Size:200
Segment: (376996, 377196)
Annotations:['A']
```

```
Skipping 100
Size:200
Segment: (397250, 397450)
Annotations:['A']
Skipping 100
Size:200
Segment: (421931, 422131)
Annotations:['A']
Skipping 100
Size:200
Segment: (422719, 422919)
Annotations:['A']
Skipping 100
Size:200
Segment: (433780, 433980)
Annotations:['A']
Skipping 100
Size:200
Segment: (436063, 436263)
Annotations:['A']
Skipping 100
Size:200
Segment: (442560, 442760)
Annotations:['A']
Skipping 100
Size:200
Segment: (444642, 444842)
Annotations:['A']
Skipping 100
Size:200
Segment: (454589, 454789)
Annotations:['A']
Skipping 100
Size:200
Segment: (458083, 458283)
Annotations:['A']
Skipping 100
Size:200
Segment: (496613, 496813)
```

```
Annotations:['A']
Skipping 100
Size:200
Segment: (520897, 521097)
Annotations:['A']
Skipping 100
Size:200
Segment: (562750, 562950)
Annotations: ['A']
Skipping 100
Size:200
Segment: (566160, 566360)
Annotations:['A']
Skipping 100
Size:200
Segment: (567318, 567518)
Annotations:['A']
Skipping 100
Size:200
Segment: (574330, 574530)
Annotations:['A']
Skipping 100
Size:200
Segment: (579363, 579563)
Annotations:['A']
Skipping 100
Size:200
Segment: (592982, 593182)
Annotations: ['A']
Skipping 100
Size:200
Segment: (629112, 629312)
Annotations:['A']
Skipping 101
Size:200
Segment: (63033, 63233)
Annotations:[]
Skipping 101
```

```
Size:200
Segment: (63343, 63543)
Annotations:['|']
Skipping 101
Size:200
Segment: (114622, 114822)
Annotations: ['|', 'Q']
Skipping 101
Size:200
Segment: (115099, 115299)
Annotations:[]
Skipping 101
Size:200
Segment: (115210, 115410)
Annotations:[]
Skipping 101
Size:200
Segment: (135217, 135417)
Annotations:['A']
Skipping 101
Size:200
Segment: (215507, 215707)
Annotations: ['A']
Skipping 101
Size:200
Segment: (308177, 308377)
Annotations:['Q']
Skipping 101
Size:200
Segment: (531954, 532154)
Annotations: ['A']
Skipping 103
Size:200
Segment: (9, 209)
Annotations:['+']
Skipping 103
Size:200
Segment: (418190, 418390)
Annotations:['A']
```

```
Skipping 103
Size:200
Segment: (489577, 489777)
Annotations:['A']
Skipping 103
Size:186
Segment: (649814, 650000)
Annotations:['N']
Skipping 105
Size:200
Segment: (74215, 74415)
Annotations:[]
Skipping 105
Size:200
Segment: (227362, 227562)
Annotations:[]
Skipping 105
Size:200
Segment: (238002, 238202)
Annotations:[]
Skipping 105
Size:200
Segment: (370724, 370924)
Annotations:[]
Skipping 105
Size:200
Segment: (432970, 433170)
Annotations:[]
Skipping 105
Size:200
Segment: (433547, 433747)
Annotations: []
Skipping 105
Size:200
Segment: (434875, 435075)
Annotations:[]
Skipping 105
Size:200
```

```
Segment: (436878, 437078)
Annotations:[]
Skipping 105
Size:200
Segment: (437833, 438033)
Annotations:[]
Skipping 105
Size:200
Segment: (439410, 439610)
Annotations:[]
Skipping 105
Size:200
Segment: (440919, 441119)
Annotations:[]
Skipping 105
Size:200
Segment: (441497, 441697)
Annotations:[]
Skipping 105
Size:200
Segment: (441985, 442185)
Annotations:[]
Skipping 105
Size:200
Segment: (442461, 442661)
Annotations:[]
Skipping 105
Size:200
Segment: (444009, 444209)
Annotations:['Q']
Skipping 105
Size:200
Segment: (444120, 444320)
Annotations:[]
Skipping 105
Size:200
Segment: (445273, 445473)
Annotations:['Q']
```

```
Skipping 105
Size:200
Segment: (447843, 448043)
Annotations:['Q']
Skipping 105
Size:200
Segment: (447993, 448193)
Annotations:[]
Skipping 105
Size:200
Segment: (463428, 463628)
Annotations:[]
Skipping 105
Size:200
Segment: (468653, 468853)
Annotations:[]
Skipping 105
Size:200
Segment: (469708, 469908)
Annotations:[]
Skipping 105
Size:200
Segment: (471660, 471860)
Annotations:[]
Skipping 105
Size:200
Segment: (472463, 472663)
Annotations:[]
Skipping 105
Size:200
Segment: (472580, 472780)
Annotations:[]
Skipping 105
Size:200
Segment: (475617, 475817)
Annotations:[]
Skipping 105
Size:200
Segment: (476810, 477010)
```

Annotations:[]
**************************************
Skipping 105
Size:200
Segment: (477343, 477543)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 105
Size:200
Segment: (478520, 478720)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 105
Size:200
Segment: (478631, 478831)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 105
Size:200
Segment: (478743, 478943)
Annotations:['~']
++++++++++++++++++++++++++++++++++++++
Skipping 105 Size:200
Segment: (482217, 482417)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 105
Size:200
Segment: (594515, 594715)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 105
Size:200
Segment: (595059, 595259)
Annotations:[]
######################################
Skipping 105 Size:200
Segment: (595171, 595371)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 105
Size:200
Segment: (595428, 595628)
Annotations:['~', 'Q']
+++++++++++++++++++++++++++++++++++++++
Skipping 105

```
Size:200
Segment: (610817, 611017)
Annotations:[]
Skipping 106
Size:200
Segment: (11, 211)
Annotations:['~']
Skipping 108
Size:200
Segment: (743, 943)
Annotations:[]
Skipping 108
Size:200
Segment: (1446, 1646)
Annotations:[]
Skipping 108
Size:200
Segment: (3191, 3391)
Annotations:
Skipping 108
Size:200
Segment: (3546, 3746)
Annotations:[]
Skipping 108
Size:200
Segment: (3878, 4078)
Annotations:[]
Skipping 108
Size:200
Segment: (4138, 4338)
Annotations:[]
Skipping 108
Size:200
Segment: (4575, 4775)
Annotations:[]
Skipping 108
Size:200
Segment: (5302, 5502)
Annotations:[]
```

```
Skipping 108
Size:200
Segment: (6433, 6633)
Annotations:[]
Skipping 108
Size:200
Segment: (8758, 8958)
Annotations:[]
Skipping 108
Size:200
Segment: (10002, 10202)
Annotations:[]
Skipping 108
Size:200
Segment: (10279, 10479)
Annotations:[]
Skipping 108
Size:200
Segment: (10932, 11132)
Annotations:[]
Skipping 108
Size:200
Segment: (29054, 29254)
Annotations:[]
Skipping 108
Size:200
Segment: (32216, 32416)
Annotations:[]
Skipping 108
Size:200
Segment: (33075, 33275)
Annotations: []
Skipping 108
Size:200
Segment: (33843, 34043)
Annotations:[]
Skipping 108
Size:200
```

```
Segment: (36069, 36269)
Annotations:[]
Skipping 108
Size:200
Segment: (36427, 36627)
Annotations:[]
Skipping 108
Size:200
Segment: (37250, 37450)
Annotations:[]
Skipping 108
Size:200
Segment: (37735, 37935)
Annotations:[]
Skipping 108
Size:200
Segment: (40869, 41069)
Annotations:[]
Skipping 108
Size:200
Segment: (42046, 42246)
Annotations:[]
Skipping 108
Size:200
Segment: (43176, 43376)
Annotations:[]
Skipping 108
Size:200
Segment: (43962, 44162)
Annotations:[]
Skipping 108
Size:200
Segment: (44345, 44545)
Annotations:[]
Skipping 108
Size:200
Segment: (44731, 44931)
Annotations:[]
```

```
Skipping 108
Size:200
Segment: (45102, 45302)
Annotations:[]
Skipping 108
Size:200
Segment: (45449, 45649)
Annotations:[]
Skipping 108
Size:200
Segment: (45861, 46061)
Annotations:[]
Skipping 108
Size:200
Segment: (46240, 46440)
Annotations:[]
Skipping 108
Size:200
Segment: (46616, 46816)
Annotations:[]
Skipping 108
Size:200
Segment: (46934, 47134)
Annotations:[]
Skipping 108
Size:200
Segment: (47308, 47508)
Annotations:[]
Skipping 108
Size:200
Segment: (47683, 47883)
Annotations:[]
Skipping 108
Size:200
Segment: (47916, 48116)
Annotations:[]
Skipping 108
Size:200
Segment: (48150, 48350)
```

Annotations:[]
Skipping 108 Size:200
Segment:(48594, 48794)
Annotations:[]
***************************************
Skipping 108
Size:200
Segment: (48943, 49143)
Annotations:[]
***************************************
Skipping 108 Size:200
Segment: (49348, 49548)
Annotations:['~']
+++++++++++++++++++++++++++++++++++++++
Skipping 108
Size:200
Segment:(49737, 49937)
Annotations:[]
***************************************
Skipping 108 Size:200
Segment: (50133, 50333)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 108
Size:200
Segment:(50517, 50717)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 108
Size:200
Segment: (50869, 51069)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 108
Size:200
Segment: (51222, 51422)
Annotations:[]
######################################
Skipping 108 Size:200
Segment:(51558, 51758)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 108

```
Size:200
Segment: (51945, 52145)
Annotations:[]
Skipping 108
Size:200
Segment: (52352, 52552)
Annotations:[]
Skipping 108
Size:200
Segment: (52730, 52930)
Annotations:[]
Skipping 108
Size:200
Segment: (53103, 53303)
Annotations:[]
Skipping 108
Size:200
Segment: (53471, 53671)
Annotations:
Skipping 108
Size:200
Segment: (53818, 54018)
Annotations:[]
Skipping 108
Size:200
Segment: (54215, 54415)
Annotations:[]
Skipping 108
Size:200
Segment: (54639, 54839)
Annotations:[]
Skipping 108
Size:200
Segment: (54994, 55194)
Annotations:[]
Skipping 108
Size:200
Segment: (55367, 55567)
Annotations:[]
```

```
Skipping 108
Size:200
Segment: (55737, 55937)
Annotations:[]
Skipping 108
Size:200
Segment: (56128, 56328)
Annotations:[]
Skipping 108
Size:200
Segment: (56521, 56721)
Annotations:[]
Skipping 108
Size:200
Segment: (56923, 57123)
Annotations:[]
Skipping 108
Size:200
Segment: (79308, 79508)
Annotations:[]
Skipping 108
Size:200
Segment: (93219, 93419)
Annotations:[]
Skipping 108
Size:200
Segment: (180511, 180711)
Annotations:['F']
Skipping 108
Size:200
Segment: (263107, 263307)
Annotations: ['A']
Skipping 108
Size:200
Segment: (376696, 376896)
Annotations:[]
Skipping 108
Size:200
```

```
Segment: (377404, 377604)
Annotations:[]
Skipping 108
Size:200
Segment: (378450, 378650)
Annotations:[]
Skipping 108
Size:200
Segment: (378798, 378998)
Annotations:[]
Skipping 108
Size:200
Segment: (379481, 379681)
Annotations:[]
Skipping 108
Size:200
Segment: (379813, 380013)
Annotations:[]
Skipping 108
Size:200
Segment: (380158, 380358)
Annotations:[]
Skipping 108
Size:200
Segment: (380852, 381052)
Annotations:[]
Skipping 108
Size:200
Segment: (382866, 383066)
Annotations:[]
Skipping 108
Size:200
Segment: (385273, 385473)
Annotations:[]
Skipping 108
Size:200
Segment: (388223, 388423)
Annotations:[]
```

```
Skipping 108
Size:200
Segment: (389839, 390039)
Annotations:[]
Skipping 108
Size:200
Segment: (392747, 392947)
Annotations:['F']
Skipping 108
Size:200
Segment: (435591, 435791)
Annotations: ['j']
Skipping 108
Size:200
Segment: (438092, 438292)
Annotations:[]
Skipping 108
Size:200
Segment: (449443, 449643)
Annotations:[]
Skipping 108
Size:200
Segment: (528179, 528379)
Annotations:['A']
Skipping 108
Size:200
Segment: (528895, 529095)
Annotations:['A']
Skipping 108
Size:200
Segment: (601439, 601639)
Annotations:[]
Skipping 108
Size:200
Segment: (602863, 603063)
Annotations:[]
Skipping 108
Size:200
Segment: (603230, 603430)
```

Annotations:[]
**************************************
Skipping 108
Size:200
Segment: (604262, 604462) Annotations: []
**************************************
Skipping 108
Size:200
Segment:(605341, 605541)
Annotations:[]
++++++++++++++++++++++++++++++++++++++
Skipping 108
Size:200
Segment: (606035, 606235)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 108
Size:200
Segment: (606377, 606577)
Annotations:[]
***************************************
Skipping 108
Size:200
Segment: (607408, 607608)
Annotations:[]
Annotations:[]
Annotations:[] ++++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++
Annotations:[] ++++++++++++++++++++++++++++++++++++
Annotations:[] ++++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++

```
Size:200
Segment: (612843, 613043)
Annotations:[]
Skipping 108
Size:200
Segment: (613455, 613655)
Annotations:[]
Skipping 108
Size:200
Segment: (615914, 616114)
Annotations:[]
Skipping 108
Size:200
Segment: (616234, 616434)
Annotations:[]
Skipping 108
Size:200
Segment: (616534, 616734)
Annotations:
Skipping 108
Size:200
Segment: (616864, 617064)
Annotations:[]
Skipping 108
Size:200
Segment: (617178, 617378)
Annotations:[]
Skipping 108
Size:200
Segment: (617486, 617686)
Annotations:[]
Skipping 108
Size:200
Segment: (617796, 617996)
Annotations:[]
Skipping 108
Size:200
Segment: (618124, 618324)
```

Annotations:[]

```
Skipping 108
Size:200
Segment: (618432, 618632)
Annotations:[]
Skipping 108
Size:200
Segment: (618789, 618989)
Annotations:[]
Skipping 108
Size:200
Segment: (619227, 619427)
Annotations:[]
Skipping 108
Size:200
Segment: (619573, 619773)
Annotations:[]
Skipping 108
Size:200
Segment: (619860, 620060)
Annotations:[]
Skipping 108
Size:200
Segment: (620154, 620354)
Annotations:[]
Skipping 108
Size:200
Segment: (620491, 620691)
Annotations:[]
Skipping 108
Size:200
Segment: (620784, 620984)
Annotations: []
Skipping 108
Size:200
Segment: (621068, 621268)
Annotations:[]
Skipping 108
Size:200
```

```
Segment: (621364, 621564)
Annotations:[]
Skipping 108
Size:200
Segment: (621615, 621815)
Annotations:[]
Skipping 108
Size:200
Segment: (622211, 622411)
Annotations:[]
Skipping 108
Size:200
Segment: (622493, 622693)
Annotations:[]
Skipping 108
Size:200
Segment: (622813, 623013)
Annotations:[]
Skipping 108
Size:200
Segment: (623680, 623880)
Annotations:[]
Skipping 108
Size:200
Segment: (623968, 624168)
Annotations:[]
Skipping 108
Size:200
Segment: (624254, 624454)
Annotations:[]
Skipping 108
Size:200
Segment: (624588, 624788)
Annotations:[]
Skipping 108
Size:200
Segment: (624888, 625088)
Annotations:[]
```

```
Skipping 108
Size:200
Segment: (625183, 625383)
Annotations:[]
Skipping 108
Size:200
Segment: (625489, 625689)
Annotations:[]
Skipping 108
Size:200
Segment: (625769, 625969)
Annotations:[]
Skipping 108
Size:200
Segment: (626060, 626260)
Annotations:[]
Skipping 108
Size:200
Segment: (626350, 626550)
Annotations:[]
Skipping 108
Size:200
Segment: (626661, 626861)
Annotations:[]
Skipping 108
Size:200
Segment: (626976, 627176)
Annotations:[]
Skipping 108
Size:200
Segment: (627255, 627455)
Annotations:[]
Skipping 108
Size:200
Segment: (627578, 627778)
Annotations:[]
Skipping 108
Size:200
Segment: (627869, 628069)
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Annotations:[]
Skipping 108 Size:200
Segment:(628152, 628352)
Annotations:[]
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Skipping 108
Size:200
Segment:(628428, 628628)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 108 Size:200
Segment: (628751, 628951)
Annotations:[]
+++++++++++++++++++++++++++++++++++++++
Skipping 108
Size:200
Segment: (629047, 629247)
Annotations:[]
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Skipping 108 Size:200
Segment:(629370, 629570) Annotations:[]
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Skipping 108
Size:200
Segment:(629667, 629867)
Annotations:[]
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Skipping 108
Size:200
Segment:(629954, 630154)
Annotations:[]
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Skipping 108
Size:200
Segment: (630245, 630445)
Annotations:[]
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Skipping 108
Size:200
Segment: (630560, 630760)
Annotations:[]
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Skipping 108

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Size:200
Segment: (630865, 631065)
Annotations:[]
Skipping 108
Size:200
Segment: (631283, 631483)
Annotations: ['A']
Skipping 108
Size:200
Segment: (631796, 631996)
Annotations:[]
Skipping 108
Size:200
Segment: (632079, 632279)
Annotations:[]
Skipping 108
Size:200
Segment: (632383, 632583)
Annotations:
Skipping 108
Size:200
Segment: (632989, 633189)
Annotations:[]
Skipping 108
Size:200
Segment: (633281, 633481)
Annotations:[]
Skipping 108
Size:200
Segment: (636352, 636552)
Annotations:[]
Skipping 108
Size:200
Segment: (636951, 637151)
Annotations:[]
Skipping 108
Size:200
Segment: (637907, 638107)
Annotations:[]
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Skipping 108
Size:200
Segment: (639456, 639656)
Annotations:[]
Skipping 108
Size:200
Segment: (639792, 639992)
Annotations:[]
Skipping 108
Size:200
Segment: (642051, 642251)
Annotations:[]
Skipping 108
Size:200
Segment: (642405, 642605)
Annotations:[]
Skipping 108
Size:200
Segment: (644990, 645190)
Annotations:[]
Skipping 108
Size:200
Segment: (645284, 645484)
Annotations:[]
Skipping 108
Size:200
Segment: (647196, 647396)
Annotations:[]
Skipping 108
Size:200
Segment: (647504, 647704)
Annotations: []
Skipping 108
Size:200
Segment: (648154, 648354)
Annotations:[]
Skipping 108
Size:200
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Segment: (648465, 648665)
Annotations:[]
Skipping 108
Size:200
Segment: (649126, 649326)
Annotations:[]
Skipping 108
Size:200
Segment: (649427, 649627)
Annotations:[]
Skipping 108
Size:200
Segment: (649725, 649925)
Annotations:[]
Skipping 109
Size:200
Segment: (6198, 6398)
Annotations:['F']
Skipping 109
Size:200
Segment: (11249, 11449)
Annotations:['F']
Skipping 109
Size:130
Segment: (649870, 650000)
Annotations:['L']
Skipping 111
Size:200
Segment: (129, 329)
Annotations:[]
Skipping 112
Size:200
Segment: (253512, 253712)
Annotations: ['A']
Skipping 112
Size:200
Segment: (278422, 278622)
Annotations:['A']
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Skipping 112
Size:185
Segment: (649815, 650000)
Annotations:['N']
Skipping 113
Size:200
Segment: (8559, 8759)
Annotations:['a']
Skipping 113
Size:200
Segment: (141967, 142167)
Annotations:['a']
Skipping 113
Size:200
Segment: (146628, 146828)
Annotations:['a']
Skipping 113
Size:200
Segment: (182936, 183136)
Annotations:['a']
Skipping 113
Size:200
Segment: (456991, 457191)
Annotations:['a']
Skipping 113
Size:200
Segment: (481133, 481333)
Annotations:['a']
Skipping 114
Size:200
Segment: (24, 224)
Annotations:[]
Skipping 114
Size:200
Segment: (248, 448)
Annotations:[]
Skipping 114
Size:200
Segment: (89262, 89462)
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Annotations:['J']
Skipping 114
Size:200
Segment: (132895, 133095)
Annotations:['F']
Skipping 114
Size:200
Segment: (168852, 169052)
Annotations:['F']
Skipping 114
Size:200
Segment: (200100, 200300)
Annotations:['F']
Skipping 114
Size:200
Segment: (251890, 252090)
Annotations: ['+', 'A']
Skipping 114
Size:200
Segment: (252091, 252291)
Annotations:['A']
Skipping 114
Size:200
Segment: (252274, 252474)
Annotations:['A']
Skipping 114
Size:200
Segment: (252423, 252623)
Annotations: ['A']
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Size:200
Segment: (252728, 252928)
Annotations:['A']
Skipping 114
Size:200
Segment: (253223, 253423)
Annotations:['J']
Skipping 114
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Size:200
Segment: (265528, 265728)
Annotations:['F']
Skipping 114
Size:200
Segment: (354959, 355159)
Annotations: ['A']
Skipping 114
Size:200
Segment: (575464, 575664)
Annotations: ['A']
Skipping 114
Size:200
Segment: (577663, 577863)
Annotations:['A']
Skipping 114
Size:200
Segment: (580310, 580510)
Annotations:['A']
Skipping 115
Size:109
Segment: (649891, 650000)
Annotations:['N']
Skipping 116
Size:200
Segment: (19, 219)
Annotations:['+']
Skipping 116
Size:200
Segment: (298855, 299055)
Annotations: ['A']
Skipping 116
Size:200
Segment: (360601, 360801)
Annotations:[]
Skipping 116
Size:130
Segment: (649870, 650000)
Annotations:['N']
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Skipping 117
Size:200
Segment: (261467, 261667)
Annotations:['A']
Skipping 117
Size:162
Segment: (649838, 650000)
Annotations:['N']
Skipping 118
Size:200
Segment: (33592, 33792)
Annotations:['A']
Skipping 118
Size:200
Segment: (35329, 35529)
Annotations: ['A']
Skipping 118
Size:200
Segment: (37877, 38077)
Annotations: ['A']
Skipping 118
Size:200
Segment: (40463, 40663)
Annotations:['A']
Skipping 118
Size:200
Segment: (60862, 61062)
Annotations:['A']
Skipping 118
Size:200
Segment: (71708, 71908)
Annotations: ['A']
Skipping 118
Size:200
Segment: (72297, 72497)
Annotations:['A']
Skipping 118
Size:200
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Segment: (98973, 99173)
Annotations:['A']
Skipping 118
Size:200
Segment: (100694, 100894)
Annotations: ['A']
Skipping 118
Size:200
Segment: (102436, 102636)
Annotations:['A']
Skipping 118
Size:200
Segment: (109751, 109951)
Annotations:['A']
Skipping 118
Size:200
Segment: (111440, 111640)
Annotations: ['A']
Skipping 118
Size:200
Segment: (125641, 125841)
Annotations:['A']
Skipping 118
Size:200
Segment: (127091, 127291)
Annotations:['A']
Skipping 118
Size:200
Segment: (127649, 127849)
Annotations:['A']
Skipping 118
Size:200
Segment: (128219, 128419)
Annotations:['A']
Skipping 118
Size:200
Segment: (128789, 128989)
Annotations:['A']
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Skipping 118
Size:200
Segment: (129936, 130136)
Annotations:['A']
Skipping 118
Size:200
Segment: (141588, 141788)
Annotations:['A']
Skipping 118
Size:200
Segment: (158108, 158308)
Annotations:['A']
Skipping 118
Size:200
Segment: (161623, 161823)
Annotations:['A']
Skipping 118
Size:200
Segment: (166150, 166350)
Annotations:['A']
Skipping 118
Size:200
Segment: (179697, 179897)
Annotations:['A']
Skipping 118
Size:200
Segment: (184087, 184287)
Annotations:['A']
Skipping 118
Size:200
Segment: (186386, 186586)
Annotations:['A']
Skipping 118
Size:200
Segment: (190891, 191091)
Annotations:['A']
Skipping 118
Size:200
Segment: (199726, 199926)
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Annotations:['A']
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Skipping 118
Size:200 Segment:(200521, 200721)
Annotations:['A']
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Skipping 118
Size:200
Segment: (217128, 217328)
Annotations:['A']
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Skipping 118
Size:200
Segment: (226399, 226599)
Annotations:['A']
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Skipping 118
Size:200
Segment: (234865, 235065)
Annotations:['A']
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Skipping 118
Size:200
Segment: (239339, 239539)
Annotations:['A']
+++++++++++++++++++++++++++++++++++++++
Skipping 118
Size:200
Segment: (240478, 240678)
Annotations:['A']
+++++++++++++++++++++++++++++++++++++++
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++++++++++++++++++++++++++++++++++++++
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Size:200
Segment: (263329, 263529)
Annotations:['A']
Skipping 118
Size:200
Segment: (263875, 264075)
Annotations: ['A']
Skipping 118
Size:200
Segment: (269132, 269332)
Annotations:['A', '~']
Skipping 118
Size:200
Segment: (272349, 272549)
Annotations:['A']
Skipping 118
Size:200
Segment: (273883, 274083)
Annotations:['A']
Skipping 118
Size:200
Segment: (275462, 275662)
Annotations:['A']
Skipping 118
Size:200
Segment: (277619, 277819)
Annotations:['A']
Skipping 118
Size:200
Segment: (279184, 279384)
Annotations: ['A']
Skipping 118
Size:200
Segment: (286472, 286672)
Annotations:['A']
Skipping 118
Size:200
Segment: (291985, 292185)
Annotations:['A']
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Skipping 118
Size:200
Segment: (305520, 305720)
Annotations:['A']
Skipping 118
Size:200
Segment: (307036, 307236)
Annotations: ['A']
Skipping 118
Size:200
Segment: (309482, 309682)
Annotations:['A']
Skipping 118
Size:200
Segment: (314104, 314304)
Annotations: ['A']
Skipping 118
Size:200
Segment: (319487, 319687)
Annotations: ['A']
Skipping 118
Size:200
Segment: (330042, 330242)
Annotations:['A']
Skipping 118
Size:200
Segment: (339321, 339521)
Annotations:['A']
Skipping 118
Size:200
Segment: (342674, 342874)
Annotations: ['A']
Skipping 118
Size:200
Segment: (344982, 345182)
Annotations:['A']
Skipping 118
Size:200
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Segment: (350872, 351072)
Annotations:['A']
Skipping 118
Size:200
Segment: (354223, 354423)
Annotations: ['A']
Skipping 118
Size:200
Segment: (361809, 362009)
Annotations:['A']
Skipping 118
Size:200
Segment: (376893, 377093)
Annotations:['A']
Skipping 118
Size:200
Segment: (399280, 399480)
Annotations: ['A']
Skipping 118
Size:200
Segment: (406686, 406886)
Annotations:['A']
Skipping 118
Size:200
Segment: (422449, 422649)
Annotations:['A']
Skipping 118
Size:200
Segment: (424120, 424320)
Annotations:['A']
Skipping 118
Size:200
Segment: (430587, 430787)
Annotations:['A']
Skipping 118
Size:200
Segment: (447681, 447881)
Annotations:['A']
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Skipping 118
Size:200
Segment: (482624, 482824)
Annotations:['A']
Skipping 118
Size:200
Segment: (488570, 488770)
Annotations:['A']
Skipping 118
Size:200
Segment: (491592, 491792)
Annotations:['A']
Skipping 118
Size:200
Segment: (496941, 497141)
Annotations:['A']
Skipping 118
Size:200
Segment: (499148, 499348)
Annotations:['A']
Skipping 118
Size:200
Segment: (503274, 503474)
Annotations:['A']
Skipping 118
Size:200
Segment: (507036, 507236)
Annotations:['A']
Skipping 118
Size:200
Segment: (508551, 508751)
Annotations:['A']
Skipping 118
Size:200
Segment: (510036, 510236)
Annotations:['A']
Skipping 118
Size:200
Segment: (512435, 512635)
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Annotations:['A']
Skipping 118 Size:200
Segment:(513625, 513825)
Annotations:['A']
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Skipping 118
Size:200
Segment: (514825, 515025)
Annotations:['A']
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Skipping 118 Size:200
Segment: (549877, 550077)
Annotations:['A']
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Skipping 118
Size:200
Segment: (557022, 557222)
Annotations:['A']
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Skipping 118
Size:200
Segment: (563965, 564165)
Annotations:['A']
***************************************
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<pre>t++++++++++++++++++++++++++++++++++++</pre>
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Size:200
Segment: (615060, 615260)
Annotations:['A']
Skipping 118
Size:200
Segment: (616291, 616491)
Annotations: ['A']
Skipping 118
Size:200
Segment: (624068, 624268)
Annotations: ['A']
Skipping 118
Size:200
Segment: (627349, 627549)
Annotations:['A']
Skipping 118
Size:200
Segment: (627526, 627726)
Annotations:['A']
Skipping 118
Size:200
Segment: (637415, 637615)
Annotations: ['A']
Skipping 118
Size:200
Segment: (639308, 639508)
Annotations:['A']
Skipping 118
Size:200
Segment: (640569, 640769)
Annotations: ['A']
Skipping 118
Size:200
Segment: (646186, 646386)
Annotations:['A']
Skipping 118
Size:200
Segment: (647432, 647632)
Annotations:['A']
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Skipping 118
Size:200
Segment: (648738, 648938)
Annotations:['A']
Skipping 118
Size:200
Segment: (649365, 649565)
Annotations: ['A']
Skipping 119
Size:200
Segment: (16, 216)
Annotations:['+']
Skipping 119
Size:116
Segment: (649884, 650000)
Annotations:[]
Skipping 121
Size:200
Segment: (364177, 364377)
Annotations: ['A']
Skipping 121
Size:185
Segment: (649815, 650000)
Annotations:['N']
Skipping 122
Size:178
Segment: (649822, 650000)
Annotations:['N']
Skipping 124
Size:200
Segment: (16, 216)
Annotations:['+']
Skipping 124
Size:200
Segment: (103353, 103553)
Annotations:['J']
Skipping 124
Size:200
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Segment: (103682, 103882)
Annotations:['J']
Skipping 124
Size:200
Segment: (104042, 104242)
Annotations:['J']
Skipping 124
Size:200
Segment: (104415, 104615)
Annotations:['J']
Skipping 124
Size:200
Segment: (104767, 104967)
Annotations:['J']
Skipping 124
Size:200
Segment: (105105, 105305)
Annotations:['J']
Skipping 124
Size:200
Segment: (105441, 105641)
Annotations:['J']
Skipping 124
Size:200
Segment: (105777, 105977)
Annotations:['J']
Skipping 124
Size:200
Segment: (106114, 106314)
Annotations:['J']
Skipping 124
Size:200
Segment: (106448, 106648)
Annotations:['J']
Skipping 124
Size:200
Segment: (106768, 106968)
Annotations:['J']
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Skipping 124
Size:200
Segment: (107122, 107322)
Annotations:['J']
Skipping 124
Size:200
Segment: (107469, 107669)
Annotations:['J']
Skipping 124
Size:200
Segment: (107815, 108015)
Annotations:['J']
Skipping 124
Size:200
Segment: (108511, 108711)
Annotations:['J']
Skipping 124
Size:200
Segment: (108872, 109072)
Annotations:['J']
Skipping 124
Size:200
Segment: (109196, 109396)
Annotations:['J']
Skipping 124
Size:200
Segment: (109823, 110023)
Annotations:['J']
Skipping 124
Size:200
Segment: (110186, 110386)
Annotations:['J']
Skipping 124
Size:200
Segment: (110533, 110733)
Annotations:['J']
Skipping 124
Size:200
Segment: (110894, 111094)
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Anna
Annotations:['J']
Skipping 124 Size:200
Segment: (111254, 111454)
Annotations:['J']
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Skipping 124
Size:200
Segment: (111623, 111823)
Annotations:['J']
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Skipping 124
Size:200
Segment: (112007, 112207)
Annotations:['F']
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Skipping 124
Size:200
Segment: (119252, 119452)
Annotations:['F']
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Skipping 124
Size:200
Segment: (119645, 119845)
Annotations:['J']
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Skipping 124
Size:200
Segment: (120032, 120232)
Annotations:['J']
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Skipping 124
Size:200
Segment: (120380, 120580)
Annotations:['J']
Annotations:['J'] +++++++++++++++++++++++++++++++++++
Annotations:['J']  ++++++++++++++++++++++++++++++++++

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Size:200
Segment: (121558, 121758)
Annotations:['J']
Skipping 124
Size:200
Segment: (160287, 160487)
Annotations: ['A']
Skipping 124
Size:200
Segment: (220417, 220617)
Annotations:['j']
Skipping 124
Size:200
Segment: (221940, 222140)
Annotations:['j']
Skipping 124
Size:200
Segment: (226663, 226863)
Annotations:['F']
Skipping 124
Size:200
Segment: (227074, 227274)
Annotations:['F']
Skipping 124
Size:200
Segment: (229486, 229686)
Annotations:['F']
Skipping 124
Size:200
Segment: (438941, 439141)
Annotations: ['A']
Skipping 124
Size:200
Segment: (599589, 599789)
Annotations:['j']
Skipping 124
Size:200
Segment: (599960, 600160)
Annotations:['j']
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Skipping 124
Size:200
Segment: (617018, 617218)
Annotations:['j']
Skipping 124
Size:184
Segment: (649816, 650000)
Annotations: ['R']
Skipping 200
Size:200
Segment: (11, 211)
Annotations:['+']
Skipping 200
Size:200
Segment: (75431, 75631)
Annotations: ['A']
Skipping 200
Size:200
Segment: (85896, 86096)
Annotations: ['A']
Skipping 200
Size:200
Segment: (153276, 153476)
Annotations:['A']
Skipping 200
Size:200
Segment: (160659, 160859)
Annotations:['A']
Skipping 200
Size:200
Segment: (186898, 187098)
Annotations: ['A']
Skipping 200
Size:200
Segment: (218814, 219014)
Annotations:['F']
Skipping 200
Size:200
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Segment: (225833, 226033)
Annotations:['A', '~']
Skipping 200
Size:200
Segment: (254814, 255014)
Annotations: ['A']
Skipping 200
Size:200
Segment: (260540, 260740)
Annotations:['A']
Skipping 200
Size:200
Segment: (268312, 268512)
Annotations:['A']
Skipping 200
Size:200
Segment: (277031, 277231)
Annotations: ['A']
Skipping 200
Size:200
Segment: (283079, 283279)
Annotations:['A']
Skipping 200
Size:200
Segment: (347529, 347729)
Annotations:['A']
Skipping 200
Size:200
Segment: (350396, 350596)
Annotations:['A']
Skipping 200
Size:200
Segment: (373206, 373406)
Annotations:[]
Skipping 200
Size:200
Segment: (375821, 376021)
Annotations:['A']
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Skipping 200 Size:200 Segment: (476656, 476856) Annotations:['A'] Skipping 200 Size:200 Segment: (488517, 488717) Annotations:['A'] Skipping 200 Size:200 Segment: (536998, 537198) Annotations:['A'] Skipping 200 Size:200 Segment: (543734, 543934) Annotations:['A'] Skipping 200 Size:200 Segment: (548234, 548434) Annotations:['A'] Skipping 200 Size:200 Segment: (548470, 548670) Annotations:['A'] Skipping 200 Size:200 Segment: (565432, 565632) Annotations:['A'] Skipping 200 Size:200 Segment: (577143, 577343) Annotations:['A'] Skipping 200 Size:200 Segment: (582673, 582873) Annotations:['A'] Skipping 200 Size:200 Segment: (590861, 591061)

Annotational[IAI]
Annotations:['A']
Skipping 200
Size:200
Segment: (596472, 596672)
Annotations: ['A']
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Skipping 200
Size:200
Segment: (602365, 602565)
Annotations:['A']
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Skipping 200
Size:200
Segment: (609082, 609282)
Annotations:['A']
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Skipping 200
Size:200
Segment: (621135, 621335)
Annotations:['A']
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Skipping 200
Size:200
Segment: (627771, 627971)
Annotations:['A']
Annotations:['A']
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++

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Size:200
Segment: (70587, 70787)
Annotations:[]
Skipping 201
Size:200
Segment: (76013, 76213)
Annotations: ['a']
Skipping 201
Size:200
Segment: (95187, 95387)
Annotations:[]
Skipping 201
Size:200
Segment: (106122, 106322)
Annotations:[]
Skipping 201
Size:200
Segment: (109551, 109751)
Annotations:['a']
Skipping 201
Size:200
Segment: (137367, 137567)
Annotations:['j']
Skipping 201
Size:200
Segment: (138106, 138306)
Annotations:['j']
Skipping 201
Size:200
Segment: (139232, 139432)
Annotations:['j']
Skipping 201
Size:200
Segment: (158012, 158212)
Annotations:['a']
Skipping 201
Size:200
Segment: (181527, 181727)
Annotations:['a']
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Skipping 201
Size:200
Segment: (185977, 186177)
Annotations:['j']
Skipping 201
Size:200
Segment: (187040, 187240)
Annotations:['j']
Skipping 201
Size:200
Segment: (187262, 187462)
Annotations:['A']
Skipping 201
Size:200
Segment: (187923, 188123)
Annotations:['j']
Skipping 201
Size:200
Segment: (188123, 188323)
Annotations: ['A']
Skipping 201
Size:200
Segment: (189537, 189737)
Annotations:['J']
Skipping 201
Size:200
Segment: (208450, 208650)
Annotations:['a']
Skipping 201
Size:200
Segment: (229300, 229500)
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Skipping 201
Size:200
Segment: (268241, 268441)
Annotations:['a']
Skipping 201
Size:200
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Segment: (283830, 284030)
Annotations:['a']
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Size:200
Segment: (352598, 352798)
Annotations:['a']
Skipping 201
Size:200
Segment: (362075, 362275)
Annotations:['A']
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Size:200
Segment: (392117, 392317)
Annotations:['a']
Skipping 201
Size:200
Segment: (396755, 396955)
Annotations: ['A']
Skipping 201
Size:200
Segment: (397736, 397936)
Annotations:['A']
Skipping 201
Size:200
Segment: (398832, 399032)
Annotations:['j']
Skipping 201
Size:200
Segment: (400531, 400731)
Annotations:['A']
Skipping 201
Size:200
Segment: (400671, 400871)
Annotations:['A']
Skipping 201
Size:200
Segment: (406092, 406292)
Annotations:['j']
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Skipping 201
Size:200
Segment: (406321, 406521)
Annotations:['A']
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Size:200
Segment: (412636, 412836)
Annotations:['A']
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Size:200
Segment: (412769, 412969)
Annotations:['A']
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Size:200
Segment: (414165, 414365)
Annotations:['A']
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Size:200
Segment: (417371, 417571)
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Size:200
Segment: (417530, 417730)
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Skipping 201
Size:200
Segment: (419326, 419526)
Annotations:['a']
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Size:200
Segment: (424591, 424791)
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Size:200
Segment: (424723, 424923)
Annotations:['A']
Skipping 201
Size:200
Segment: (427439, 427639)
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Annotations:['a']
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Segment: (439372, 439572)
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Segment: (439539, 439739)
Annotations:['A']
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Size:200
Segment: (442253, 442453)
Annotations:['a']
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Size:200
Segment: (444989, 445189)
Annotations: ['A']
Skipping 201
Size:200
Segment: (446923, 447123)
Annotations:['A']
Skipping 201
Size:200
Segment: (522339, 522539)
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Size:200
Segment: (522480, 522680)
Annotations: ['A']
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Size:200
Segment: (523485, 523685)
Annotations:['a']
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Size:200
Segment: (524586, 524786)
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Skipping 201
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Segment: (525901, 526101)
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Size:200
Segment: (526502, 526702)
Annotations: ['a']
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Size:200
Segment: (527254, 527454)
Annotations: ['a']
Skipping 201
Size:200
Segment: (528656, 528856)
Annotations:['a']
Skipping 201
Size:200
Segment: (529404, 529604)
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Size:200
Segment: (530793, 530993)
Annotations: ['a']
Skipping 201
Size:200
Segment: (532249, 532449)
Annotations:['a']
Skipping 201
Size:200
Segment: (533647, 533847)
Annotations: ['a']
Skipping 201
Size:200
Segment: (534381, 534581)
Annotations:['a']
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Segment: (535112, 535312)
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Skipping 201
Size:200
Segment: (535231, 535431)
Annotations:['A']
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Size:200
Segment: (535810, 536010)
Annotations: ['a']
Skipping 201
Size:200
Segment: (537230, 537430)
Annotations:['a']
Skipping 201
Size:200
Segment: (537969, 538169)
Annotations: ['a', 'a']
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Size:200
Segment: (538672, 538872)
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Skipping 201
Size:200
Segment: (540091, 540291)
Annotations:['a']
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Size:200
Segment: (540832, 541032)
Annotations:['a']
Skipping 201
Size:200
Segment: (541565, 541765)
Annotations: ['a']
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Size:200
Segment: (542311, 542511)
Annotations:['A']
Skipping 201
Size:200
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Segment: (543088, 543288)
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Size:200
Segment: (544513, 544713)
Annotations: ['a']
Skipping 201
Size:200
Segment: (545238, 545438)
Annotations:['A']
Skipping 201
Size:200
Segment: (546043, 546243)
Annotations:['a']
Skipping 201
Size:200
Segment: (547423, 547623)
Annotations: ['a']
Skipping 201
Size:200
Segment: (547556, 547756)
Annotations:['a']
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Size:200
Segment: (548159, 548359)
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Skipping 201
Size:200
Segment: (549635, 549835)
Annotations:['a']
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Size:200
Segment: (551057, 551257)
Annotations:['a']
Skipping 201
Size:200
Segment: (552535, 552735)
Annotations:['a']
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Skipping 201
Size:200
Segment: (555969, 556169)
Annotations:['a']
Skipping 201
Size:200
Segment: (557393, 557593)
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Skipping 201
Size:200
Segment: (557517, 557717)
Annotations:['A']
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Size:200
Segment: (558767, 558967)
Annotations:['A']
Skipping 201
Size:200
Segment: (558885, 559085)
Annotations:['A']
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Size:200
Segment: (559413, 559613)
Annotations:['A']
Skipping 201
Size:200
Segment: (559544, 559744)
Annotations:['A']
Skipping 201
Size:200
Segment: (560089, 560289)
Annotations:['A']
Skipping 201
Size:200
Segment: (561526, 561726)
Annotations:['a']
Skipping 201
Size:200
Segment: (561652, 561852)
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Annotations:['a']
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Skipping 201
Size:200
Segment: (562257, 562457)
Annotations:['a']
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Skipping 201
Size:200
Segment: (563503, 563703)
Annotations:['a']
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Skipping 201
Size:200
Segment: (564179, 564379)
Annotations:['a']
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Skipping 201
Size:200
Segment: (565483, 565683)
Annotations:['F']
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Skipping 201 Size:200
Segment: (565650, 565850)
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Annotations:['a']
Annotations:['a']
Annotations:['a']
Annotations:['a'] +++++++++++++++++++++++++++++++++++
Annotations:['a']  ++++++++++++++++++++++++++++++++++
Annotations:['a'] +++++++++++++++++++++++++++++++++++
Annotations:['a'] +++++++++++++++++++++++++++++++++++
Annotations:['a']  ++++++++++++++++++++++++++++++++++

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Size:200
Segment: (570932, 571132)
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Size:200
Segment: (572486, 572686)
Annotations: ['a']
Skipping 201
Size:200
Segment: (573926, 574126)
Annotations: ['a']
Skipping 201
Size:200
Segment: (607498, 607698)
Annotations:['a']
Skipping 201
Size:200
Segment: (615174, 615374)
Annotations:
Skipping 201
Size:200
Segment: (644534, 644734)
Annotations:['j']
Skipping 201
Size:200
Segment: (645742, 645942)
Annotations:['j']
Skipping 202
Size:200
Segment: (144984, 145184)
Annotations: ['A']
Skipping 202
Size:200
Segment: (264932, 265132)
Annotations:['A']
Skipping 202
Size:200
Segment: (265075, 265275)
Annotations:['A']
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Skipping 202
Size:200
Segment: (267825, 268025)
Annotations:['a']
Skipping 202
Size:200
Segment: (268782, 268982)
Annotations: ['A']
Skipping 202
Size:200
Segment: (269793, 269993)
Annotations:['A']
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Size:200
Segment: (273038, 273238)
Annotations:['A']
Skipping 202
Size:200
Segment: (274055, 274255)
Annotations: ['A']
Skipping 202
Size:200
Segment: (278322, 278522)
Annotations:['A']
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Size:200
Segment: (280550, 280750)
Annotations:['A']
Skipping 202
Size:200
Segment: (281986, 282186)
Annotations: ['A']
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Size:200
Segment: (283031, 283231)
Annotations:['A']
Skipping 202
Size:200
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Segment: (288738, 288938)
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Segment: (290170, 290370)
Annotations:['A']
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Size:200
Segment: (302487, 302687)
Annotations:['A']
Skipping 202
Size:200
Segment: (404329, 404529)
Annotations:['A']
Skipping 202
Size:200
Segment: (405076, 405276)
Annotations: ['a']
Skipping 202
Size:200
Segment: (405202, 405402)
Annotations:['a']
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Size:200
Segment: (405763, 405963)
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Skipping 202
Size:200
Segment: (406458, 406658)
Annotations:['a']
Skipping 202
Size:200
Segment: (407158, 407358)
Annotations:['a']
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Size:200
Segment: (407842, 408042)
Annotations: ['a']
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Skipping 202
Size:200
Segment: (407984, 408184)
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Segment: (408542, 408742)
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Size:200
Segment: (409230, 409430)
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Size:200
Segment: (409353, 409553)
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Size:200
Segment: (409926, 410126)
Annotations:['A']
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Size:200
Segment: (410098, 410298)
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Segment: (410637, 410837)
Annotations:['A']
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Size:200
Segment: (411330, 411530)
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Size:200
Segment: (411461, 411661)
Annotations:['a']
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Size:200
Segment: (417680, 417880)
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Annotations:['A']
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Segment: (417841, 418041)
Annotations:['A']
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Skipping 202
Size:200
Segment:(418455, 418655)
Annotations:['A']
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Skipping 202 Size:200
Segment: (418611, 418811)
Annotations:['A']
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Size:200
Segment:(419170, 419370)
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Size:200
Segment: (419340, 419540)
Annotations:['A']
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Size:200
Segment: (419890, 420090)
Annotations:['A']
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Skipping 202
Size:200
Segment: (420060, 420260) Annotations: ['A']
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Skipping 202
Size:200
Segment: (420636, 420836)
Annotations:['A']
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Skipping 202
Size:200
Segment: (421356, 421556)
Annotations:['a']
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Skipping 202

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Size:200
Segment: (422041, 422241)
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Skipping 202
Size:200
Segment: (422194, 422394)
Annotations: ['A']
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Size:200
Segment: (422765, 422965)
Annotations: ['a']
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Size:200
Segment: (422904, 423104)
Annotations:['A']
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Size:200
Segment: (466418, 466618)
Annotations:['A']
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Size:200
Segment: (466981, 467181)
Annotations:['F']
Skipping 202
Size:200
Segment: (467175, 467375)
Annotations:['A']
Skipping 202
Size:200
Segment: (467358, 467558)
Annotations: ['A']
Skipping 202
Size:200
Segment: (467983, 468183)
Annotations:['A']
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Segment: (481822, 482022)
Annotations:[]
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Segment: (483456, 483656)
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Segment: (632534, 632734)
Annotations:[]
Skipping 202
Size:200
Segment: (636882, 637082)
Annotations:[]
Skipping 202
Size: 184
Segment: (649816, 650000)
Annotations:['N']
Skipping 203
Size:200
Segment: (2280, 2480)
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Size:200
Segment: (7820, 8020)
Annotations:[]
Skipping 203
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Segment: (16897, 17097)
Annotations: []
Skipping 203
Size:200
Segment: (19331, 19531)
Annotations:[]
Skipping 203
Size:200
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Segment: (20649, 20849)
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Size:200
Segment: (20951, 21151)
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Segment: (22800, 23000)
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Segment: (23337, 23537)
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Size:200
Segment: (23710, 23910)
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Segment: (24278, 24478)
Annotations:[]
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Segment: (24943, 25143)
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Segment: (34372, 34572)
Annotations:['a']
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Segment: (35577, 35777)
Annotations:['a']
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Size:200
Segment: (35847, 36047)
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Segment: (38062, 38262)
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Segment: (40781, 40981)
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Segment: (43616, 43816)
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Segment: (49130, 49330)
Annotations:[]
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Size:200
Segment: (49617, 49817)
Annotations:[]
Skipping 203
Size:200
Segment: (54388, 54588)
Annotations:[]
Skipping 203
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Segment: (67267, 67467)
Annotations:[]
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Size:200
Segment: (77206, 77406)
Annotations:[]
Skipping 203
Size:200
Segment: (85368, 85568)
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Annotations:[]
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Skipping 203
Size:200
Segment: (89868, 90068)
Annotations:[]
Skipping 203
Size:200
Segment: (90242, 90442)
Annotations:[]
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Skipping 203
Size:200
Segment: (95876, 96076)
Annotations:[]
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Skipping 203
Size:200
Segment: (99030, 99230)
Annotations:[]
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Skipping 203
Size:200
Segment: (100368, 100568)
Annotations:[]
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Skipping 203
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Segment: (103165, 103365)
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Skipping 203
Size:200
Segment: (107889, 108089)
Annotations:[]
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Skipping 203
Size:200
Segment: (109566, 109766)
Annotations:[]
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Skipping 203
Size:200
Segment: (110105, 110305)
Annotations:[]
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Skipping 203

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Size:200
Segment: (121761, 121961)
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Skipping 203
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Segment: (123810, 124010)
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Size:200
Segment: (129015, 129215)
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Segment: (129518, 129718)
Annotations:[]
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Segment: (135810, 136010)
Annotations:
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Segment: (141721, 141921)
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Segment: (145711, 145911)
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Segment: (146227, 146427)
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Size:200
Segment: (148509, 148709)
Annotations:[]
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Skipping 203
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Segment: (153533, 153733)
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Segment: (163386, 163586)
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Segment: (169494, 169694)
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Segment: (170834, 171034)
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Segment: (172737, 172937)
Annotations:[]
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Size:200
Segment: (172998, 173198)
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Segment: (178466, 178666)
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Skipping 203
Size:200
Segment: (179721, 179921)
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Segment: (181096, 181296)
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Skipping 203
Size:200
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Segment: (182280, 182480)
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Size:200
Segment: (184773, 184973)
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Segment: (192601, 192801)
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Segment: (193517, 193717)
Annotations:[]
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Segment: (196598, 196798)
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Size:200
Segment: (199050, 199250)
Annotations:['Q', '~']
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Segment: (204501, 204701)
Annotations:[]
Skipping 203
Size:200
Segment: (211272, 211472)
Annotations:[]
Skipping 203
Size:200
Segment: (212809, 213009)
Annotations:[]
Skipping 203
Size:200
Segment: (213803, 214003)
Annotations:[]
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Skipping 203
Size:200
Segment: (217042, 217242)
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Segment: (222956, 223156)
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Segment: (226410, 226610)
Annotations:[]
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Segment: (236147, 236347)
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Segment: (240245, 240445)
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Segment: (240807, 241007)
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Size:200
Segment: (251734, 251934)
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Segment: (254033, 254233)
Annotations:[]
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Segment: (255827, 256027)
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Size:200
Segment: (258050, 258250)
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Annotations:[]
Skipping 203
Size:200
Segment: (258941, 259141)
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Skipping 203
Size:200
Segment: (261420, 261620)
Annotations:[]
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Skipping 203 Size:200
Segment: (262237, 262437)
Annotations:[]
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Skipping 203 Size:200
Segment: (267075, 267275)
Annotations:[]
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Segment: (267672, 267872)
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Segment: (270852, 271052)
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Segment: (271552, 271752)
Annotations:[]
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Skipping 203
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Segment: (276226, 276426)
Annotations:[]
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SKIDDING 203
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Size:200
Size:200 Segment:(279488, 279688)
Size:200 Segment:(279488, 279688) Annotations:[]

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Segment: (281542, 281742)
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Skipping 203
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Segment: (285541, 285741)
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Skipping 203
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Segment: (288007, 288207)
Annotations:[]
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Segment: (288997, 289197)
Annotations:[]
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Size:200
Segment: (291101, 291301)
Annotations:
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Size:200
Segment: (292796, 292996)
Annotations:[]
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Segment: (293330, 293530)
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Skipping 203
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Segment: (293660, 293860)
Annotations:[]
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Segment: (293998, 294198)
Annotations:[]
Skipping 203
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Segment: (297175, 297375)
Annotations:[]
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Segment: (298739, 298939)
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Segment: (308007, 308207)
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Segment: (313058, 313258)
Annotations:[]
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Segment: (314584, 314784)
Annotations:[]
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Size:200
Segment: (316179, 316379)
Annotations:[]
Skipping 203
Size:200
Segment: (316546, 316746)
Annotations: []
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Size:200
Segment: (317790, 317990)
Annotations:['~']
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Size:200
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Segment: (322083, 322283)
Annotations:[]
Skipping 203
Size:200
Segment: (323928, 324128)
Annotations:[]
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Size:200
Segment: (324752, 324952)
Annotations:['~']
Skipping 203
Size:200
Segment: (329503, 329703)
Annotations:['|', '|', '|']
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Size:200
Segment: (329621, 329821)
Annotations:['|', '~']
Skipping 203
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Segment: (344163, 344363)
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Segment: (347577, 347777)
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Segment: (348368, 348568)
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Segment: (363064, 363264)
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Segment: (367379, 367579)
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Segment: (368905, 369105)
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Segment: (372449, 372649)
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Segment: (374773, 374973)
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Segment: (375331, 375531)
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Skipping 203
Size:200
Segment: (377280, 377480)
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Segment: (387760, 387960)
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Segment: (392436, 392636)
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Segment: (397018, 397218)
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Segment: (400954, 401154)
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Segment: (457055, 457255)
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Size:200
Segment: (457383, 457583)
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Segment: (458643, 458843)
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Segment: (462216, 462416)
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Segment: (477732, 477932)
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Segment: (484412, 484612)
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Segment: (509747, 509947)
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Segment: (535528, 535728)
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Segment: (537374, 537574)
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Segment: (539085, 539285)
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Size:200
Segment: (540038, 540238)
Annotations:['~']
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Segment: (549739, 549939)
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Segment: (553781, 553981)
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Segment: (560748, 560948)
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Segment: (573504, 573704)
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Segment: (578516, 578716)
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Segment: (579300, 579500)
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Segment: (580404, 580604)
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Segment: (599436, 599636)
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Skipping 203
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Segment: (599827, 600027)
Annotations:[]
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Skipping 203

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Segment: (607799, 607999)
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Segment: (610937, 611137)
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Segment: (612074, 612274)
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Segment: (622638, 622838)
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Size:200
Segment: (630223, 630423)
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Segment: (636146, 636346)
Annotations: []
Skipping 205
Size:200
Segment: (19, 219)
Annotations:[]
Skipping 205
Size:200
Segment: (107420, 107620)
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Annotations:['A', '+']

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Segment: (107897, 108097)
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Segment: (110052, 110252)
Annotations:[]
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Segment: (294600, 294800)
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Size:200
Segment: (301702, 301902)
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Size:200
Segment: (329326, 329526)
Annotations:['F']
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Size:200
Segment: (338636, 338836)
Annotations:['F']
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Size:200
Segment: (340103, 340303)
Annotations:['F']
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Size:200
Segment: (341298, 341498)
Annotations:['F']
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Size:200
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Segment: (346816, 347016)
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Segment: (350884, 351084)
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Size:200
Segment: (352324, 352524)
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Segment: (353738, 353938)
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Size:200
Segment: (432590, 432790)
Annotations: ['A']
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Segment: (527273, 527473)
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Size:200
Segment: (530543, 530743)
Annotations:[]
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Size:200
Segment: (531003, 531203)
Annotations:['A']
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Size:200
Segment: (531855, 532055)
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Segment: (14687, 14887)
Annotations:['+']
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Skipping 207
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Segment: (14827, 15027)
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Segment: (14941, 15141)
Annotations:['!']
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Size:200
Segment: (15060, 15260)
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Size:200
Segment: (15178, 15378)
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Segment: (15319, 15519)
Annotations:['!', '!']
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Segment: (15564, 15764)
Annotations:['!', '!']
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Size:200
Segment: (15728, 15928)
Annotations:['!']
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Size:200
Segment: (15868, 16068)
Annotations:['!']
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Size:200
Segment: (15998, 16198)
Annotations:['!']
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Size:200
Segment: (16116, 16316)
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Annotations:['!']
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Size:200
Segment: (16316, 16516)
Annotations:['!', '!']
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Size:200
Segment: (16420, 16620)
Annotations:['!']
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Size:200
Segment: (16534, 16734)
Annotations:['!']
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Size:200
Segment: (16644, 16844)
Annotations:['!']
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Size:200
Segment: (16758, 16958)
Annotations:['!']
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Size:200
Segment: (16872, 17072)
Annotations:['!']
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Segment: (16992, 17192)
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Skipping 207
Size:200
Segment: (17174, 17374)
Annotations:['!', '!']
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Size:200
Segment: (17313, 17513)
Annotations:['!']
Skipping 207
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Segment: (17434, 17634)
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Size:200
Segment: (17590, 17790)
Annotations:['!']
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Size:200
Segment: (17740, 17940)
Annotations:['!']
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Size:200
Segment: (17864, 18064)
Annotations:['!']
Skipping 207
Size:200
Segment: (18007, 18207)
Annotations:['!']
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Size:200
Segment: (18182, 18382)
Annotations:['!', ']']
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Segment: (19753, 19953)
Annotations: ['+', '!']
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Size:200
Segment: (19885, 20085)
Annotations:['!', '!']
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Segment: (20001, 20201)
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Size:200
Segment: (20316, 20516)
Annotations:['!']
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Skipping 207
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Segment: (20440, 20640)
Annotations:['!', '!']
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Size:200
Segment: (20556, 20756)
Annotations:['!']
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Segment: (20666, 20866)
Annotations:['!']
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Size:200
Segment: (20963, 21163)
Annotations:['!']
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Size:200
Segment: (21102, 21302)
Annotations:['!']
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Size:200
Segment: (21233, 21433)
Annotations:['!', '!']
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Size:200
Segment: (21353, 21553)
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Skipping 207
Size:200
Segment: (21530, 21730)
Annotations:['!']
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Size:200
Segment: (87202, 87402)
Annotations:['+', '!']
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Size:200
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Segment: (87449, 87649)
Annotations:['!', '!']
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Segment: (87573, 87773)
Annotations:['!']
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Size:200
Segment: (87697, 87897)
Annotations:['!']
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Size:200
Segment: (87807, 88007)
Annotations:['!']
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Size:200
Segment: (88140, 88340)
Annotations:['!']
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Size:200
Segment: (88412, 88612)
Annotations:['!']
Skipping 207
Size:200
Segment: (88580, 88780)
Annotations:['!', ']']
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Size:200
Segment: (90544, 90744)
Annotations: ['!', '!']
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Size:200
Segment: (90674, 90874)
Annotations:['!']
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Size:200
Segment: (90806, 91006)
Annotations:['!']
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Size:200
Segment: (91609, 91809)
Annotations:['!', '!']
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Size:200
Segment: (91828, 92028)
Annotations:['!', '!']
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Size:200
Segment: (91941, 92141)
Annotations:['!']
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Size:200
Segment: (92050, 92250)
Annotations:['!']
Skipping 207
Size:200
Segment: (92161, 92361)
Annotations:['!']
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Size:200
Segment: (92271, 92471)
Annotations:['!']
Skipping 207
Size:200
Segment: (92567, 92767)
Annotations:['!', '!']
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Size:200
Segment: (92784, 92984)
Annotations:['!', '!']
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Size:200
Segment: (92893, 93093)
Annotations:['!']
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Size:200
Segment: (93020, 93220)
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Annotations:['!']
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Size:200
Segment: (93344, 93544)
Annotations:['!', '!']
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Size:200
Segment: (93599, 93799)
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Size:200
Segment: (93725, 93925)
Annotations:['!']
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Size:200
Segment: (93841, 94041)
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Size:200
Segment: (97056, 97256)
Annotations:['!']
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Size:200
Segment: (97196, 97396)
Annotations:['!', '!']
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Size:200
Segment: (97414, 97614)
Annotations: ['!', '!']
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Size:200
Segment: (97635, 97835)
Annotations:['!', '!']
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Size:200
Segment: (97746, 97946)
Annotations:['!']
Skipping 207
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Size:200
Segment: (98084, 98284)
Annotations:['!']
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Size:200
Segment: (98203, 98403)
Annotations:['!']
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Size:200
Segment: (98304, 98504)
Annotations:['!']
Skipping 207
Size:200
Segment: (99615, 99815)
Annotations:['!', '!']
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Size:200
Segment: (99748, 99948)
Annotations:['!']
Skipping 207
Size:200
Segment: (99928, 100128)
Annotations:['!', '!']
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Size:200
Segment: (100056, 100256)
Annotations:['!']
Skipping 207
Size:200
Segment: (100244, 100444)
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Size:200
Segment: (100378, 100578)
Annotations:['!']
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Size:200
Segment: (100613, 100813)
Annotations:['!']
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Segment: (100738, 100938)
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Size:200
Segment: (100888, 101088)
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Size:200
Segment: (150833, 151033)
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Segment: (554751, 554951)
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Size:200
Segment: (554890, 555090)
Annotations:['!']
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Size:200
Segment: (555015, 555215)
Annotations:['!']
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Size:200
Segment: (555139, 555339)
Annotations:['!', '!']
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Size:200
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Size:200
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Size:200
Segment: (556176, 556376)
Annotations:['!', '!']
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Size:200
Segment: (556286, 556486)
Annotations:['!']
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Size:200
Segment: (556405, 556605)
Annotations:['!']
Skipping 207
Size:200
Segment: (557122, 557322)
Annotations:['!', '!']
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Size:200
Segment: (557504, 557704)
Annotations: ['!', '!']
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Size:200
Segment: (557915, 558115)
Annotations: ['!', '!']
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Size:200
Segment: (559396, 559596)
Annotations:['!', '!']
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Size:200
Segment: (559623, 559823)
Annotations:['!', '!']
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Size:200
Segment: (559734, 559934)
Annotations:['!']
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Size:200
Segment: (559844, 560044)
Annotations:['!']
Skipping 207
Size:200
Segment: (559959, 560159)
Annotations:['!']
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Size:200
Segment: (560172, 560372)
Annotations:['!', '!']
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Segment: (564669, 564869)
Annotations:['!', '!']
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Size:200
Segment: (564766, 564966)
Annotations:['!']
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Size:200
Segment: (567335, 567535)
Annotations:['!', '!']
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Size:200
Segment: (567525, 567725)
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Annotations:['!', '!']
Skipping 207
Size:200
Segment: (567625, 567825)
Annotations:['!']
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Size:200
Segment: (569387, 569587)
Annotations:['!', '!']
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Size:200
Segment: (569569, 569769)
Annotations:['!', '!']
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Size:200
Segment: (569764, 569964)
Annotations:['!', '!']
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Size:200
Segment: (570751, 570951)
Annotations:['!', '!']
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Size:200
Segment: (571002, 571202)
Annotations:['!', '!']
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Size:200
Segment: (571126, 571326)
Annotations:['!']
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Size:200
Segment: (571317, 571517)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (571419, 571619)
Annotations:['!']
Skipping 207
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Size:200
Segment: (572286, 572486)
Annotations:['!', '!', '!']
Skipping 207
Size:200
Segment: (572395, 572595)
Annotations:['!']
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Size:200
Segment: (572582, 572782)
Annotations:['!', '!']
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Size:200
Segment: (572777, 572977)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (572976, 573176)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (573085, 573285)
Annotations:['!']
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Size:200
Segment: (573180, 573380)
Annotations:['!']
Skipping 207
Size:200
Segment: (573815, 574015)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (573922, 574122)
Annotations:['!']
Skipping 207
Size:200
Segment: (574474, 574674)
Annotations:['!', '!', '!']
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Skipping 207
Size:200
Segment: (574610, 574810)
Annotations:['!']
Skipping 207
Size:200
Segment: (574819, 575019)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (574918, 575118)
Annotations:['!']
Skipping 207
Size:200
Segment: (576052, 576252)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (576562, 576762)
Annotations:['!']
Skipping 207
Size:200
Segment: (576960, 577160)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (577333, 577533)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (577722, 577922)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (577842, 578042)
Annotations:['!']
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Size:200
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Segment: (578103, 578303)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (578203, 578403)
Annotations:['!']
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Size:200
Segment: (578803, 579003)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (579104, 579304)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (579265, 579465)
Annotations: ['!', '!']
Skipping 207
Size:200
Segment: (579398, 579598)
Annotations:['!']
Skipping 207
Size:200
Segment: (579595, 579795)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (579972, 580172)
Annotations: ['!', '!']
Skipping 207
Size:200
Segment: (580184, 580384)
Annotations: ['!', '!']
Skipping 207
Size:200
Segment: (580290, 580490)
Annotations:['!']
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Skipping 207
Size:200
Segment: (581091, 581291)
Annotations:['!', '!']
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Size:200
Segment: (581280, 581480)
Annotations:['!', '!']
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Size:200
Segment: (581602, 581802)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (581723, 581923)
Annotations:['!']
Skipping 207
Size:200
Segment: (581889, 582089)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (581998, 582198)
Annotations:['!']
Skipping 207
Size:200
Segment: (582116, 582316)
Annotations:['!']
Skipping 207
Size:200
Segment: (582308, 582508)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (582454, 582654)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (582577, 582777)
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Segment: (582685, 582885)
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Size:200
Segment: (582852, 583052)
Annotations:['!', '!']
Skipping 207
Size:200
Segment: (582949, 583149)
Annotations:['!']
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Size:200
Segment: (583456, 583656)
Annotations: ['!', '!']
Skipping 207
Size:200
Segment: (583737, 583937)
Annotations:['!', '!']
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Size:200
Segment: (583930, 584130)
Annotations:['!', '!']
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Size:200
Segment: (584246, 584446)
Annotations:['!', '!']
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Segment: (584438, 584638)
Annotations:['!', '!']
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Size:200
Segment: (584813, 585013)
Annotations:['!', '!']
Skipping 207
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Segment: (585218, 585418)
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Segment: (585422, 585622)
Annotations:['!', '!']
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Segment: (585620, 585820)
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Segment: (585737, 585937)
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Segment: (585996, 586196)
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Size:200
Segment: (586152, 586352)
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Size:200
Segment: (586290, 586490)
Annotations:['!']
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Size:200
Segment: (586388, 586588)
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Segment: (586600, 586800)
Annotations:['!', '!']
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Annotations:['!']
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Size:200
Segment: (586923, 587123)
Annotations:['!']
Skipping 207
Size:200
Segment: (587414, 587614)
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Segment: (587545, 587745)
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Size:200
Segment: (587737, 587937)
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Segment: (587867, 588067)
Annotations:['!']
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Segment: (588039, 588239)
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Size:200
Segment: (588246, 588446)
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Segment: (589088, 589288)
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Segment: (589330, 589530)
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Skipping 207 Size:200 Segment: (590541, 590741) Annotations:['E'] Skipping 207 Size:200 Segment: (591361, 591561) Annotations: ['E'] Skipping 207 Size:200 Segment: (592224, 592424) Annotations:['E'] Skipping 207 Size:200 Segment: (592735, 592935) Annotations: ['E'] Skipping 207 Size:200 Segment: (593216, 593416) Annotations: ['E'] Skipping 207 Size:200 Segment: (593632, 593832) Annotations:['E'] Skipping 207 Size:200 Segment: (594054, 594254) Annotations:['E'] Skipping 207 Size:200 Segment: (594485, 594685) Annotations:['E'] Skipping 207 Size:200 Segment: (594894, 595094) Annotations:['E'] Skipping 207 Size:200

Segment: (595292, 595492)

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Segment: (596534, 596734)
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Segment: (596940, 597140)
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Segment: (597334, 597534)
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Size:200 Segment: (599381, 599581) Annotations:['E'] Skipping 207 Size:200 Segment: (599764, 599964) Annotations: ['E'] Skipping 207 Size:200 Segment: (600173, 600373) Annotations: ['E'] Skipping 207 Size:200 Segment: (600593, 600793) Annotations:['E'] Skipping 207 Size:200 Segment: (600992, 601192) Annotations:['E'] Skipping 207 Size:200 Segment: (601382, 601582) Annotations: ['E'] Skipping 207 Size:200 Segment: (601763, 601963) Annotations:['E'] Skipping 207 Size:200 Segment: (602120, 602320) Annotations: ['E'] Skipping 207 Size:200 Segment: (602509, 602709) Annotations:['E'] Skipping 207 Size:200 Segment: (602906, 603106)

Annotations:['E']

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Segment: (603976, 604176)
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Size:200
Segment: (604329, 604529)
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Segment: (604677, 604877)
Annotations: ['E']
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Segment: (605038, 605238)
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Segment: (609299, 609499)
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Segment: (612397, 612597)

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Segment: (614631, 614831)
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Segment:(614959, 615159) Annotations:['E']
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Segment:(615989, 616189)
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Skipping 207

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Segment: (626336, 626536)
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Segment: (630095, 630295)

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Segment: (631340, 631540)
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Segment: (631545, 631745)
Annotations:['A']
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Annotations:['A'] +++++++++++++++++++++++++++++++++++

Size:200 Segment: (632560, 632760) Annotations:['A'] Skipping 207 Size:200 Segment: (632741, 632941) Annotations: ['A'] Skipping 207 Size:200 Segment: (632917, 633117) Annotations:['A'] Skipping 207 Size:200 Segment: (633111, 633311) Annotations:['A'] Skipping 207 Size:200 Segment: (633268, 633468) Annotations:['A'] Skipping 207 Size:200 Segment: (633458, 633658) Annotations: ['A'] Skipping 207 Size:200 Segment: (633628, 633828) Annotations:['A'] Skipping 207 Size:200 Segment: (633780, 633980) Annotations: ['A'] Skipping 207 Size:200 Segment: (633950, 634150) Annotations:['A'] Skipping 207 Size:200 Segment: (634123, 634323)

Annotations:['A']

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Segment: (634681, 634881)
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Size:200
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Segment: (637565, 637765)
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Skipping 207 Size:200
Skipping 207 Size:200 Segment:(640228, 640428) Annotations:['A']
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Skipping 207 Size:200 Segment:(640228, 640428) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 207 Size:200 Segment:(640228, 640428) Annotations:['A'] +++++++++++++++++++++++++++++++++++
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Skipping 207 Size:200 Segment:(640228, 640428) Annotations:['A'] +++++++++++++++++++++++++++++++++++
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Size:200 Segment: (641103, 641303) Annotations:['A'] Skipping 207 Size:200 Segment: (641284, 641484) Annotations: ['A'] Skipping 207 Size:200 Segment: (641485, 641685) Annotations:['A'] Skipping 207 Size:200 Segment: (641648, 641848) Annotations:['A'] Skipping 207 Size:200 Segment: (641844, 642044) Annotations:['A'] Skipping 207 Size:200 Segment: (642024, 642224) Annotations: ['A'] Skipping 207 Size:200 Segment: (642193, 642393) Annotations:['A'] Skipping 207 Size:200 Segment: (642351, 642551) Annotations: ['A'] Skipping 207 Size:200 Segment: (642525, 642725) Annotations:['A'] Skipping 207 Size:200 Segment: (642724, 642924) Annotations:['A']

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Size:200
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Segment: (646130, 646330)
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Segment: (647909, 648109)

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Segment: (648484, 648684)
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Segment: (648668, 648868)
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Annotations:['A']  ++++++++++++++++++++++++++++++++++

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Segment: (212538, 212738)

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Skipping 208
Size:200
Segment: (356610, 356810)
Annotations:['F']
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Skipping 208 Size:200 Segment: (359196, 359396) Annotations:['F'] Skipping 208 Size:200 Segment: (364100, 364300) Annotations:['F'] Skipping 208 Size:200 Segment: (365505, 365705) Annotations:['F'] Skipping 208 Size:200 Segment: (367460, 367660) Annotations:['F'] Skipping 208 Size:200 Segment: (369566, 369766) Annotations:['F'] Skipping 208 Size:200 Segment: (376682, 376882) Annotations:['F'] Skipping 208 Size:200 Segment: (377662, 377862) Annotations:['F'] Skipping 208 Size:200 Segment: (378645, 378845) Annotations:['F'] Skipping 208 Size:200 Segment: (380032, 380232) Annotations:['F'] Skipping 208 Size:200 Segment: (380851, 381051)

Annotations:['F']
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Skipping 208 Size:200
Segment: (381547, 381747)
Annotations:['F']
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Skipping 208
Size:200
Segment:(385178, 385378)
Annotations:['S']
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Skipping 208 Size:200
Segment:(385904, 386104)
Annotations:['S']
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Skipping 208
Size:200
Segment: (386158, 386358)
Annotations:['F']
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Skipping 208
Size:200
Segment: (404225, 404425)
Annotations:['F']
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Skipping 208
Size:200
Segment: (422661, 422861)
Annotations:['F']
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Skipping 208 Size:200
Size:200 Segment:(428409, 428609)
Annotations:['F']
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Skipping 208
Size:200
Segment: (428609, 428809)
Annotations:['F']
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Skipping 208
Size:200
Segment: (428986, 429186)
Annotations:['F']
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Skipping 208

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Size:200
Segment: (429187, 429387)
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Size:200
Segment: (429599, 429799)
Annotations:['F']
Skipping 208
Size:200
Segment: (431316, 431516)
Annotations:['F']
Skipping 208
Size:200
Segment: (431911, 432111)
Annotations:['F']
Skipping 208
Size:200
Segment: (433026, 433226)
Annotations:['F']
Skipping 208
Size:200
Segment: (435941, 436141)
Annotations:['F']
Skipping 208
Size:200
Segment: (437142, 437342)
Annotations:['F']
Skipping 208
Size:200
Segment: (437773, 437973)
Annotations: ['F', '~']
Skipping 208
Size:200
Segment: (441024, 441224)
Annotations:['F']
Skipping 208
Size:200
Segment: (441798, 441998)
Annotations:['F']
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Skipping 208
Size:200
Segment: (443089, 443289)
Annotations:['F']
Skipping 208
Size:200
Segment: (443689, 443889)
Annotations:['F']
Skipping 208
Size:200
Segment: (444312, 444512)
Annotations:['F']
Skipping 208
Size:200
Segment: (445722, 445922)
Annotations:['F']
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Size:200
Segment: (447300, 447500)
Annotations:['F']
Skipping 208
Size:200
Segment: (449418, 449618)
Annotations:['F']
Skipping 208
Size:200
Segment: (450094, 450294)
Annotations:['F']
Skipping 208
Size:200
Segment: (454039, 454239)
Annotations: ['|', 'Q']
Skipping 208
Size:200
Segment: (454698, 454898)
Annotations:['F']
Skipping 208
Size:200
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Segment: (455349, 455549)
Annotations:['F']
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Size:200
Segment: (458349, 458549)
Annotations:[]
Skipping 208
Size:200
Segment: (458511, 458711)
Annotations: ['~', 'Q']
Skipping 208
Size:200
Segment: (459093, 459293)
Annotations:['F']
Skipping 208
Size:200
Segment: (461013, 461213)
Annotations:['F']
Skipping 208
Size:200
Segment: (461688, 461888)
Annotations:['F']
Skipping 208
Size:200
Segment: (465000, 465200)
Annotations:['F']
Skipping 208
Size:200
Segment: (468045, 468245)
Annotations:['F']
Skipping 208
Size:200
Segment: (468726, 468926)
Annotations:['F']
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Size:200
Segment: (469350, 469550)
Annotations:['F']
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Skipping 208 Size:200 Segment: (470143, 470343) Annotations:['F'] Skipping 208 Size:200 Segment: (474810, 475010) Annotations:['F'] Skipping 208 Size:200 Segment: (479397, 479597) Annotations:['F'] Skipping 208 Size:200 Segment: (481162, 481362) Annotations:['F'] Skipping 208 Size:200 Segment: (482958, 483158) Annotations:['F'] Skipping 208 Size:200 Segment: (487991, 488191) Annotations:['F'] Skipping 208 Size:200 Segment: (490278, 490478) Annotations:['F'] Skipping 208 Size:200 Segment: (491057, 491257) Annotations:['F'] Skipping 208 Size:200 Segment: (491641, 491841) Annotations:['F'] Skipping 208 Size:200 Segment: (495581, 495781)

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Annotations:['F']
Skipping 208
Size:200
Segment: (502729, 502929)
Annotations:['F']
Skipping 208
Size:200
Segment: (503902, 504102)
Annotations:['F', '+']
Skipping 208
Size:200
Segment: (508300, 508500)
Annotations:['F']
Skipping 208
Size:200
Segment: (509739, 509939)
Annotations:['F']
Skipping 208
Size:200
Segment: (511931, 512131)
Annotations:['F']
Skipping 208
Size:200
Segment: (512573, 512773)
Annotations:['F']
Skipping 208
Size:200
Segment: (514538, 514738)
Annotations:['F']
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Size:200
Segment: (515144, 515344)
Annotations:['F']
Skipping 208
Size:200
Segment: (517833, 518033)
Annotations:['F']
Skipping 208
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Size:200
Segment: (519790, 519990)
Annotations:['F']
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Size:200
Segment: (523727, 523927)
Annotations:['F']
Skipping 208
Size:200
Segment: (525056, 525256)
Annotations:['F']
Skipping 208
Size:200
Segment: (525642, 525842)
Annotations:['F']
Skipping 208
Size:200
Segment: (527597, 527797)
Annotations:['F']
Skipping 208
Size:200
Segment: (530156, 530356)
Annotations:['F']
Skipping 208
Size:200
Segment: (531635, 531835)
Annotations:['F']
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Size:200
Segment: (535131, 535331)
Annotations:['F']
Skipping 208
Size:200
Segment: (535728, 535928)
Annotations:['F']
Skipping 208
Size:200
Segment: (537608, 537808)
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Skipping 208
Size:200
Segment: (538209, 538409)
Annotations:['~', 'F']
Skipping 208
Size:200
Segment: (540160, 540360)
Annotations:['F']
Skipping 208
Size:200
Segment: (540760, 540960)
Annotations:['F']
Skipping 208
Size:200
Segment: (541382, 541582)
Annotations:['F']
Skipping 208
Size:200
Segment: (542027, 542227)
Annotations:['F', '+']
Skipping 208
Size:200
Segment: (544568, 544768)
Annotations:['F']
Skipping 208
Size:200
Segment: (545226, 545426)
Annotations:['F']
Skipping 208
Size:200
Segment: (546502, 546702)
Annotations:['F']
Skipping 208
Size:200
Segment: (547889, 548089)
Annotations:['F']
Skipping 208
Size:200
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Segment: (549911, 550111)
Annotations:['F', '~']
Skipping 208
Size:200
Segment: (551303, 551503)
Annotations:['F']
Skipping 208
Size:200
Segment: (551919, 552119)
Annotations: ['F']
Skipping 208
Size:200
Segment: (553375, 553575)
Annotations:['F']
Skipping 208
Size:200
Segment: (554025, 554225)
Annotations:['F']
Skipping 208
Size:200
Segment: (555396, 555596)
Annotations:['F']
Skipping 208
Size:200
Segment: (556716, 556916)
Annotations:['F']
Skipping 208
Size:200
Segment: (558836, 559036)
Annotations:['F']
Skipping 208
Size:200
Segment: (587127, 587327)
Annotations:['F']
Skipping 208
Size:200
Segment: (593341, 593541)
Annotations:['F']
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Skipping 208 Size:200 Segment: (599711, 599911) Annotations:['F'] Skipping 208 Size:200 Segment: (600387, 600587) Annotations:['F'] Skipping 208 Size:200 Segment: (601036, 601236) Annotations:['F'] Skipping 208 Size:200 Segment: (602265, 602465) Annotations:['F'] Skipping 208 Size:200 Segment: (604729, 604929) Annotations:['F'] Skipping 208 Size:200 Segment: (608729, 608929) Annotations:['F'] Skipping 208 Size:200 Segment: (620868, 621068) Annotations:['F'] Skipping 208 Size:200 Segment: (629768, 629968) Annotations:['F'] Skipping 208 Size:200 Segment: (641478, 641678) Annotations:['F'] Skipping 208 Size:200

Segment: (642404, 642604)

Annotations:['F', '+']
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Skipping 208
Size:200
Segment: (647462, 647662)
Annotations:['F']
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Skipping 208
Size:200
Segment: (648661, 648861)
Annotations:['F']
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Skipping 208
Size:150
Segment: (649850, 650000)
Annotations:['N']
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Skipping 209
Size:200
Segment: (132, 332)
Annotations:[]
***************************************
Skipping 209
Size:200
Segment: (19061, 19261)
Annotations:['A']
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Skipping 209
Size:200
Segment: (25408, 25608)
A
Annotations:['A']
+++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++
<pre>++++++++++++++++++++++++++++++++++++</pre>
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Size:200 Segment: (56679, 56879) Annotations:['A'] Skipping 209 Size:200 Segment: (69500, 69700) Annotations: ['A'] Skipping 209 Size:200 Segment: (92957, 93157) Annotations: ['A'] Skipping 209 Size:200 Segment: (95000, 95200) Annotations:['A'] Skipping 209 Size:200 Segment: (96056, 96256) Annotations:['A'] Skipping 209 Size:200 Segment: (107277, 107477) Annotations: ['A'] Skipping 209 Size:200 Segment: (109934, 110134) Annotations:['A'] Skipping 209 Size:200 Segment: (112454, 112654) Annotations: ['A'] Skipping 209 Size:200 Segment: (118023, 118223) Annotations:['A'] Skipping 209 Size:200 Segment: (122265, 122465) Annotations:['A']

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Skipping 209
Size:200
Segment: (124042, 124242)
Annotations:['A']
Skipping 209
Size:200
Segment: (124999, 125199)
Annotations: ['A']
Skipping 209
Size:200
Segment: (125989, 126189)
Annotations:['A']
Skipping 209
Size:200
Segment: (128735, 128935)
Annotations: ['A']
Skipping 209
Size:200
Segment: (130506, 130706)
Annotations: ['A']
Skipping 209
Size:200
Segment: (132891, 133091)
Annotations:['A']
Skipping 209
Size:200
Segment: (135474, 135674)
Annotations:['A']
Skipping 209
Size:200
Segment: (137839, 138039)
Annotations: ['A']
Skipping 209
Size:200
Segment: (138801, 139001)
Annotations:['A']
Skipping 209
Size:200
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Segment: (141362, 141562)
Annotations:['A']
Skipping 209
Size:200
Segment: (142305, 142505)
Annotations:['A']
Skipping 209
Size:200
Segment: (148059, 148259)
Annotations:['A']
Skipping 209
Size:200
Segment: (150197, 150397)
Annotations:['A']
Skipping 209
Size:200
Segment: (151682, 151882)
Annotations: ['A']
Skipping 209
Size:200
Segment: (151815, 152015)
Annotations:['A']
Skipping 209
Size:200
Segment: (151967, 152167)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (152079, 152279)
Annotations:[]
Skipping 209
Size:200
Segment: (152244, 152444)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (152371, 152571)
Annotations:['A']
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Skipping 209 Size:200 Segment: (152512, 152712) Annotations:['A'] Skipping 209 Size:200 Segment: (152646, 152846) Annotations:['A'] Skipping 209 Size:200 Segment: (152778, 152978) Annotations:['A'] Skipping 209 Size:200 Segment: (152911, 153111) Annotations:['A'] Skipping 209 Size:200 Segment: (153039, 153239) Annotations:['A'] Skipping 209 Size:200 Segment: (153159, 153359) Annotations:[] Skipping 209 Size:200 Segment: (153281, 153481) Annotations:['A'] Skipping 209 Size:200 Segment: (153422, 153622) Annotations:['A'] Skipping 209 Size:200 Segment: (153565, 153765) Annotations:['A'] Skipping 209 Size:200 Segment: (153710, 153910)

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Annotations:['A']
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Size:200
Segment: (153878, 154078)
Annotations:['A', 'A']
Skipping 209
Size:200
Segment: (154012, 154212)
Annotations: ['A']
Skipping 209
Size:200
Segment: (154147, 154347)
Annotations:['+']
Skipping 209
Size:200
Segment: (155765, 155965)
Annotations: ['A']
Skipping 209
Size:200
Segment: (155897, 156097)
Annotations:['A']
Skipping 209
Size:200
Segment: (167618, 167818)
Annotations:['A']
Skipping 209
Size:200
Segment: (173923, 174123)
Annotations: ['A']
Skipping 209
Size:200
Segment: (176194, 176394)
Annotations:['A']
Skipping 209
Size:200
Segment: (182597, 182797)
Annotations:['A']
Skipping 209
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Size:200
Segment: (182738, 182938)
Annotations:['A']
Skipping 209
Size:200
Segment: (185468, 185668)
Annotations: ['A']
Skipping 209
Size:200
Segment: (186649, 186849)
Annotations:['A']
Skipping 209
Size:200
Segment: (187777, 187977)
Annotations:['A']
Skipping 209
Size:200
Segment: (198864, 199064)
Annotations:['A']
Skipping 209
Size:200
Segment: (199993, 200193)
Annotations: ['A']
Skipping 209
Size:200
Segment: (200123, 200323)
Annotations:['A']
Skipping 209
Size:200
Segment: (200281, 200481)
Annotations: ['A']
Skipping 209
Size:200
Segment: (200419, 200619)
Annotations:['A']
Skipping 209
Size:200
Segment: (200617, 200817)
Annotations:['A']
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Skipping 209
Size:200
Segment: (200811, 201011)
Annotations:['A']
Skipping 209
Size:200
Segment: (200953, 201153)
Annotations: ['A']
Skipping 209
Size:200
Segment: (201100, 201300)
Annotations:['A', 'A']
Skipping 209
Size:200
Segment: (201212, 201412)
Annotations:[]
Skipping 209
Size:200
Segment: (201381, 201581)
Annotations: ['A']
Skipping 209
Size:200
Segment: (201495, 201695)
Annotations:['A']
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Size:200
Segment: (201628, 201828)
Annotations:['A']
Skipping 209
Size:200
Segment: (201790, 201990)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (201901, 202101)
Annotations:[]
Skipping 209
Size:200
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Segment: (202062, 202262)
Annotations:['A', 'A']
Skipping 209
Size:200
Segment: (202195, 202395)
Annotations:[]
Skipping 209
Size:200
Segment: (202331, 202531)
Annotations:['A']
Skipping 209
Size:200
Segment: (202469, 202669)
Annotations:['A']
Skipping 209
Size:200
Segment: (202584, 202784)
Annotations: ['A']
Skipping 209
Size:200
Segment: (202742, 202942)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (202869, 203069)
Annotations:[]
Skipping 209
Size:200
Segment: (203012, 203212)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (203122, 203322)
Annotations:[]
Skipping 209
Size:200
Segment: (203286, 203486)
Annotations:['A']
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Skipping 209 Size:200 Segment: (203424, 203624) Annotations:['A'] Skipping 209 Size:200 Segment: (203546, 203746) Annotations:['A'] Skipping 209 Size:200 Segment: (203717, 203917) Annotations: ['A', 'A'] Skipping 209 Size:200 Segment: (203848, 204048) Annotations:[] Skipping 209 Size:200 Segment: (203987, 204187) Annotations:['A'] Skipping 209 Size:200 Segment: (204103, 204303) Annotations:['A'] Skipping 209 Size:200 Segment: (204233, 204433) Annotations:['A'] Skipping 209 Size:200 Segment: (204365, 204565) Annotations:['A'] Skipping 209 Size:200 Segment: (204496, 204696) Annotations:['A'] Skipping 209 Size:200

Segment: (204624, 204824)

Annotations:['A']
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Skipping 209
Size:200
Segment: (204754, 204954)
Annotations:['A']
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Skipping 209
Size:200
Segment: (204874, 205074)
Annotations:['A']
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Skipping 209
Size:200
Segment: (205010, 205210)
Annotations:['A']
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Skipping 209
Size:200
Segment: (205177, 205377)
Annotations:['A', 'A']
Skipping 209 Size:200
Sagmant (1)05/288 (105/288)
Segment: (205288, 205488) Annotations: []
Annotations:[]
Annotations:[]
Annotations:[]
Annotations:[] ++++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++

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Size:200
Segment: (206005, 206205)
Annotations: ['A', 'A']
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Size:200
Segment: (206139, 206339)
Annotations: ['A']
Skipping 209
Size:200
Segment: (206270, 206470)
Annotations: ['A']
Skipping 209
Size:200
Segment: (206403, 206603)
Annotations:['A']
Skipping 209
Size:200
Segment: (206540, 206740)
Annotations:['A']
Skipping 209
Size:200
Segment: (206673, 206873)
Annotations: ['A']
Skipping 209
Size:200
Segment: (206799, 206999)
Annotations:['A']
Skipping 209
Size:200
Segment: (206932, 207132)
Annotations: ['A']
Skipping 209
Size:200
Segment: (207061, 207261)
Annotations:['A']
Skipping 209
Size:200
Segment: (207197, 207397)
Annotations:['A']
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Skipping 209
Size:200
Segment: (207308, 207508)
Annotations:[]
Skipping 209
Size:200
Segment: (207475, 207675)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (207616, 207816)
Annotations:['A']
Skipping 209
Size:200
Segment: (207757, 207957)
Annotations: ['A']
Skipping 209
Size:200
Segment: (207888, 208088)
Annotations: ['A']
Skipping 209
Size:200
Segment: (208026, 208226)
Annotations:['A']
Skipping 209
Size:200
Segment: (208135, 208335)
Annotations:[]
Skipping 209
Size:200
Segment: (208302, 208502)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (208440, 208640)
Annotations:['A']
Skipping 209
Size:200
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Segment: (208559, 208759)
Annotations:[]
Skipping 209
Size:200
Segment: (208696, 208896)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (208809, 209009)
Annotations:[]
Skipping 209
Size:200
Segment: (208970, 209170)
Annotations:['A', 'A']
Skipping 209
Size:200
Segment: (209104, 209304)
Annotations: ['A']
Skipping 209
Size:200
Segment: (209226, 209426)
Annotations:['A']
Skipping 209
Size:200
Segment: (209361, 209561)
Annotations:['A']
Skipping 209
Size:200
Segment: (209474, 209674)
Annotations:[]
Skipping 209
Size:200
Segment: (209648, 209848)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (209780, 209980)
Annotations:[]
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Skipping 209
Size:200
Segment: (209903, 210103)
Annotations:['A']
Skipping 209
Size:200
Segment: (210115, 210315)
Annotations:['A']
Skipping 209
Size:200
Segment: (213738, 213938)
Annotations:['A']
Skipping 209
Size:200
Segment: (215766, 215966)
Annotations:['+', 'A', 'A']
Skipping 209
Size:200
Segment: (215878, 216078)
Annotations:[]
Skipping 209
Size:200
Segment: (216019, 216219)
Annotations:['A']
Skipping 209
Size:200
Segment: (216157, 216357)
Annotations:['A']
Skipping 209
Size:200
Segment: (216321, 216521)
Annotations:['A', 'A']
Skipping 209
Size:200
Segment: (216432, 216632)
Annotations:[]
Skipping 209
Size:200
Segment: (216571, 216771)
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Annotations:['A']
Skipping 209
Size:200
Segment: (216709, 216909)
Annotations: ['A']
Skipping 209
Size:200
Segment: (216879, 217079)
Annotations:['A', 'A']
Skipping 209
Size:200
Segment: (217008, 217208)
Annotations:[]
Skipping 209
Size:200
Segment: (217155, 217355)
Annotations: ['A', 'A']
Skipping 209
Size:200
Segment: (217283, 217483)
Annotations:[]
Skipping 209
Size:200
Segment: (217399, 217599)
Annotations:['A']
Skipping 209
Size:200
Segment: (217539, 217739)
Annotations: ['A']
Skipping 209
Size:200
Segment: (217697, 217897)
Annotations:['A', 'A']
Skipping 209
Size:200
Segment: (217823, 218023)
Annotations:[]
Skipping 209
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Size:200 Segment: (217970, 218170) Annotations: ['A', 'A'] Skipping 209 Size:200 Segment: (218080, 218280) Annotations: [] Skipping 209 Size:200 Segment: (218221, 218421) Annotations:['A'] Skipping 209 Size:200 Segment: (218362, 218562) Annotations:['A'] Skipping 209 Size:200 Segment: (218519, 218719) Annotations:['A'] Skipping 209 Size:200 Segment: (218639, 218839) Annotations: ['A'] Skipping 209 Size:200 Segment: (218777, 218977) Annotations:['A'] Skipping 209 Size:200 Segment: (218908, 219108) Annotations: ['A'] Skipping 209 Size:200 Segment: (219048, 219248) Annotations:['A'] Skipping 209 Size:200 Segment: (219182, 219382) Annotations:['A']

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Skipping 209
Size:200
Segment: (219318, 219518)
Annotations:['A']
Skipping 209
Size:200
Segment: (219470, 219670)
Annotations: ['A', 'A']
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Size:200
Segment: (219581, 219781)
Annotations:[]
Skipping 209
Size:200
Segment: (219714, 219914)
Annotations: ['A']
Skipping 209
Size:200
Segment: (219843, 220043)
Annotations: ['A']
Skipping 209
Size:200
Segment: (219964, 220164)
Annotations:['A']
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Size:200
Segment: (220100, 220300)
Annotations:['A']
Skipping 209
Size:200
Segment: (220236, 220436)
Annotations: ['A']
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Size:200
Segment: (220375, 220575)
Annotations: ['A']
Skipping 209
Size:200
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Segment: (220520, 220720)
Annotations:['A']
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Size:200
Segment: (220657, 220857)
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Skipping 209
Size:200
Segment: (220818, 221018)
Annotations:['A']
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Size:200
Segment: (220937, 221137)
Annotations:['A']
Skipping 209
Size:200
Segment: (221086, 221286)
Annotations:['A', 'A']
Skipping 209
Size:200
Segment: (221223, 221423)
Annotations:['A']
Skipping 209
Size:200
Segment: (221350, 221550)
Annotations:['A']
Skipping 209
Size:200
Segment: (221481, 221681)
Annotations:['A']
Skipping 209
Size:200
Segment: (221593, 221793)
Annotations:[]
Skipping 209
Size:200
Segment: (221748, 221948)
Annotations:['A', 'A']
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Skipping 209 Size:200 Segment: (221885, 222085) Annotations:['A'] Skipping 209 Size:200 Segment: (222014, 222214) Annotations:['A'] Skipping 209 Size:200 Segment: (222126, 222326) Annotations:['A'] Skipping 209 Size:200 Segment: (222258, 222458) Annotations:[] Skipping 209 Size:200 Segment: (222396, 222596) Annotations:['A'] Skipping 209 Size:200 Segment: (222530, 222730) Annotations:['A'] Skipping 209 Size:200 Segment: (222648, 222848) Annotations:['A'] Skipping 209 Size:200 Segment: (222814, 223014) Annotations:['A', 'A'] Skipping 209 Size:200 Segment: (222926, 223126) Annotations:[] Skipping 209 Size:200

Segment: (223065, 223265)

Annotations:['A']
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Skipping 209 Size:200
Segment: (223203, 223403)
Annotations:['A']
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Skipping 209
Size:200
Segment: (223342, 223542)
Annotations:['A']
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Skipping 209 Size:200
Segment: (223483, 223683)
Annotations:['A']
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Skipping 209
Size:200
Segment: (229394, 229594)
Annotations:['A']
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Skipping 209
Size:200
Segment: (232519, 232719)
Annotations:['A']
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Segment: (255760, 255960)
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Size:200
Segment: (256808, 257008)
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Size:200
Segment: (264074, 264274)
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Size:200
Segment: (264220, 264420)
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Size:200
Segment: (264415, 264615)
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Size:200
Segment: (264612, 264812)
Annotations: ['A', 'A']
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Size:200
Segment: (264746, 264946)
Annotations:['A']
Skipping 209
Size:200
Segment: (264858, 265058)
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Skipping 209
Size:200
Segment: (264989, 265189)
Annotations:['A']
Skipping 209
Size:200
Segment: (265151, 265351)
Annotations: ['A', 'A']
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Skipping 209
Size:200
Segment: (265282, 265482)
Annotations:['A']
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Size:200
Segment: (265409, 265609)
Annotations:[]
Skipping 209
Size:200
Segment: (265554, 265754)
Annotations:['A']
Skipping 209
Size:200
Segment: (265696, 265896)
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Size:200
Segment: (265841, 266041)
Annotations: ['A']
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Segment: (265987, 266187)
Annotations:['A']
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Size:200
Segment: (266125, 266325)
Annotations:['A']
Skipping 209
Size:200
Segment: (266241, 266441)
Annotations: ['A']
Skipping 209
Size:200
Segment: (266405, 266605)
Annotations:['A']
Skipping 209
Size:200
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Segment: (266542, 266742)
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Size:200
Segment: (266685, 266885)
Annotations:['A']
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Size:200
Segment: (266805, 267005)
Annotations:['A']
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Size:200
Segment: (266963, 267163)
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Size:200
Segment: (267072, 267272)
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Size:200
Segment: (267206, 267406)
Annotations:['A']
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Segment: (267359, 267559)
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Size:200
Segment: (267481, 267681)
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Segment: (267594, 267794)
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Skipping 209
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Segment: (267753, 267953)
Annotations:['A']
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Skipping 209
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Segment: (267894, 268094)
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Segment: (268028, 268228)
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Segment: (268143, 268343)
Annotations:['A']
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Size:200
Segment: (268310, 268510)
Annotations: ['A', 'A']
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Size:200
Segment: (268448, 268648)
Annotations: ['A']
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Size:200
Segment: (268581, 268781)
Annotations:['A']
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Size:200
Segment: (268693, 268893)
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Size:200
Segment: (268824, 269024)
Annotations: ['A']
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Size:200
Segment: (268980, 269180)
Annotations: ['A', 'A']
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Size:200
Segment: (269110, 269310)
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Annotations:['A']
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Segment: (269237, 269437)
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Size:200
Segment: (269368, 269568)
Annotations:['A']
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Skipping 209 Size:200
Segment: (269495, 269695)
Annotations:['+']
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Skipping 209
Size:200
Segment: (271849, 272049)
Annotations:[]
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Skipping 209
Size:200
Segment: (279164, 279364)
Annotations:['A']
Annotations:['A']
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++

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Size:200
Segment: (285606, 285806)
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Skipping 209
Size:200
Segment: (285749, 285949)
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Skipping 209
Size:200
Segment: (285911, 286111)
Annotations:['A', 'A']
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Size:200
Segment: (286048, 286248)
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Size:200
Segment: (286163, 286363)
Annotations:['A']
Skipping 209
Size:200
Segment: (286304, 286504)
Annotations: ['A']
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Size:200
Segment: (286439, 286639)
Annotations:['A']
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Size:200
Segment: (286595, 286795)
Annotations: ['A', 'A']
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Size:200
Segment: (286708, 286908)
Annotations:[]
Skipping 209
Size:200
Segment: (286836, 287036)
Annotations:['A']
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Skipping 209
Size:200
Segment: (286984, 287184)
Annotations: ['A', 'A']
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Size:200
Segment: (287120, 287320)
Annotations: ['A']
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Segment: (287231, 287431)
Annotations:[]
Skipping 209
Size:200
Segment: (287395, 287595)
Annotations:['A']
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Size:200
Segment: (287513, 287713)
Annotations: ['A']
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Segment: (287658, 287858)
Annotations:['A']
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Segment: (287806, 288006)
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Size:200
Segment: (287947, 288147)
Annotations: ['A']
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Size:200
Segment: (288108, 288308)
Annotations:['A', 'A']
Skipping 209
Size:200
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Segment: (288244, 288444)
Annotations:['A']
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Size:200
Segment: (288364, 288564)
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Size:200
Segment: (288493, 288693)
Annotations:['A']
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Size:200
Segment: (288628, 288828)
Annotations:[]
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Size:200
Segment: (290977, 291177)
Annotations: ['A']
Skipping 209
Size:200
Segment: (294156, 294356)
Annotations:['A']
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Size:200
Segment: (303826, 304026)
Annotations:['A']
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Size:200
Segment: (308119, 308319)
Annotations:['A']
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Size:200
Segment: (310316, 310516)
Annotations:['A']
Skipping 209
Size:200
Segment: (310710, 310910)
Annotations:['+', 'A', 'A']
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Skipping 209
Size:200
Segment: (310842, 311042)
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Size:200
Segment: (310954, 311154)
Annotations:[]
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Size:200
Segment: (311119, 311319)
Annotations: ['A', 'A']
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Segment: (311234, 311434)
Annotations:[]
Skipping 209
Size:200
Segment: (311369, 311569)
Annotations:['A']
Skipping 209
Size:200
Segment: (311508, 311708)
Annotations:['A']
Skipping 209
Size:200
Segment: (311650, 311850)
Annotations:['A']
Skipping 209
Size:200
Segment: (311791, 311991)
Annotations:['A']
Skipping 209
Size:200
Segment: (311954, 312154)
Annotations: ['A', 'A']
Skipping 209
Size:200
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Segment: (312066, 312266)

Annotations:[]
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Skipping 209 Size:200
Segment:(312229, 312429)
Annotations:['A']
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Skipping 209
Size:200
Segment: (312372, 312572)
Annotations:['A', 'A']
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Skipping 209
Size:200
Segment: (312503, 312703)
Annotations:[]
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Skipping 209
Size:200
Segment: (320084, 320284)
Annotations:['A']
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Skipping 209
Size:200
Segment: (330639, 330839)
0 , ,
Annotations: ['A']
•
Annotations:['A']
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++

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Size:200
Segment: (348429, 348629)
Annotations:['A']
Skipping 209
Size:200
Segment: (355625, 355825)
Annotations: ['A']
Skipping 209
Size:200
Segment: (359376, 359576)
Annotations: ['A']
Skipping 209
Size:200
Segment: (360548, 360748)
Annotations:['A']
Skipping 209
Size:200
Segment: (366796, 366996)
Annotations:['A']
Skipping 209
Size:200
Segment: (367959, 368159)
Annotations: ['A']
Skipping 209
Size:200
Segment: (379706, 379906)
Annotations:['A']
Skipping 209
Size:200
Segment: (385984, 386184)
Annotations: ['A']
Skipping 209
Size:200
Segment: (396330, 396530)
Annotations:['A']
Skipping 209
Size:200
Segment: (402866, 403066)
Annotations:['A']
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Skipping 209
Size:200
Segment: (410168, 410368)
Annotations:['A']
Skipping 209
Size:200
Segment: (414053, 414253)
Annotations: ['A']
Skipping 209
Size:200
Segment: (416294, 416494)
Annotations:['A']
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Size:200
Segment: (422910, 423110)
Annotations: ['A']
Skipping 209
Size:200
Segment: (425636, 425836)
Annotations: ['A']
Skipping 209
Size:200
Segment: (428613, 428813)
Annotations:['A']
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Size:200
Segment: (432689, 432889)
Annotations:['A']
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Size:200
Segment: (436567, 436767)
Annotations: ['A']
Skipping 209
Size:200
Segment: (440919, 441119)
Annotations:['A']
Skipping 209
Size:200
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Segment: (442964, 443164)
Annotations:['A']
Skipping 209
Size:200
Segment: (460939, 461139)
Annotations:['A']
Skipping 209
Size:200
Segment: (464974, 465174)
Annotations:['A']
Skipping 209
Size:200
Segment: (469539, 469739)
Annotations:['A']
Skipping 209
Size:200
Segment: (474169, 474369)
Annotations: ['A']
Skipping 209
Size:200
Segment: (479421, 479621)
Annotations:['A']
Skipping 209
Size:200
Segment: (502202, 502402)
Annotations:['A']
Skipping 209
Size:200
Segment: (503321, 503521)
Annotations:['A']
Skipping 209
Size:200
Segment: (506289, 506489)
Annotations:['A']
Skipping 209
Size:200
Segment: (507435, 507635)
Annotations:['A']
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Skipping 209 Size:200 Segment: (508320, 508520) Annotations:['A'] Skipping 209 Size:200 Segment: (526926, 527126) Annotations:['A'] Skipping 209 Size:200 Segment: (540850, 541050) Annotations:['A'] Skipping 209 Size:200 Segment: (541972, 542172) Annotations:['A'] Skipping 209 Size:200 Segment: (545644, 545844) Annotations:['A'] Skipping 209 Size:200 Segment: (549600, 549800) Annotations:['A'] Skipping 209 Size:200 Segment: (550475, 550675) Annotations:['A'] Skipping 209 Size:200 Segment: (550893, 551093) Annotations:['A'] Skipping 209 Size:200 Segment: (551042, 551242) Annotations:['A'] Skipping 209 Size:200

Segment: (551164, 551364)

Annotations:['A']
Skipping 209 Size:200
Segment: (551312, 551512)
Annotations:['A']
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Skipping 209
Size:200
Segment: (551460, 551660)
Annotations:['A']
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Skipping 209 Size:200
Segment: (551614, 551814)
Annotations:['A']
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Skipping 209
Size:200
Segment:(555251, 555451)
Annotations:['A']
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Skipping 209
Size:200
Segment: (557089, 557289)
Annotations:['A']
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Size:200
Segment: (574809, 575009)
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Size:200
Segment: (577754, 577954)
Annotations: ['A']
Skipping 209
Size:200
Segment: (582564, 582764)
Annotations: ['A']
Skipping 209
Size:200
Segment: (598612, 598812)
Annotations:['A']
Skipping 209
Size:200
Segment: (601348, 601548)
Annotations:['A']
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Size:200
Segment: (604171, 604371)
Annotations:['A']
Skipping 209
Size:200
Segment: (605907, 606107)
Annotations:['A']
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Size:200
Segment: (609643, 609843)
Annotations: ['A']
Skipping 209
Size:200
Segment: (611602, 611802)
Annotations:['A']
Skipping 209
Size:200
Segment: (614424, 614624)
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Annotations:['A']

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Size:200
Segment: (617045, 617245)
Annotations:['A']
Skipping 209
Size:200
Segment: (617447, 617647)
Annotations:['+', 'A', 'A']
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Size:200
Segment: (617560, 617760)
Annotations:[]
Skipping 209
Size:200
Segment: (617710, 617910)
Annotations: ['A']
Skipping 209
Size:200
Segment: (617864, 618064)
Annotations: ['A']
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Size:200
Segment: (618262, 618462)
Annotations:['A']
Skipping 209
Size:200
Segment: (618415, 618615)
Annotations:['A']
Skipping 209
Size:200
Segment: (618564, 618764)
Annotations: ['A']
Skipping 209
Size:200
Segment: (618774, 618974)
Annotations:['A']
Skipping 209
Size:200
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Segment: (618969, 619169)
Annotations:['A']
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Size:200
Segment: (619120, 619320)
Annotations:['A']
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Size:200
Segment: (619267, 619467)
Annotations: ['A', 'A']
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Segment: (619379, 619579)
Annotations:[]
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Size:200
Segment: (619545, 619745)
Annotations:['A', 'A']
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Size:200
Segment: (619675, 619875)
Annotations:[]
Skipping 209
Size:200
Segment: (619797, 619997)
Annotations:['A']
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Size:200
Segment: (619979, 620179)
Annotations:['A']
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Size:200
Segment: (620102, 620302)
Annotations:['A']
Skipping 209
Size:200
Segment: (622097, 622297)
Annotations:['A']
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Skipping 209 Size:200 Segment: (623913, 624113) Annotations:['A'] Skipping 209 Size:200 Segment: (626948, 627148) Annotations:['A'] Skipping 209 Size:200 Segment: (628876, 629076) Annotations:['A'] Skipping 209 Size:200 Segment: (631720, 631920) Annotations:['A', '+'] Skipping 209 Size:200 Segment: (631920, 632120) Annotations:['A'] Skipping 209 Size:200 Segment: (632095, 632295) Annotations:['A', 'A'] Skipping 209 Size:200 Segment: (632205, 632405) Annotations:[] Skipping 209 Size:200 Segment: (632347, 632547) Annotations:['A'] Skipping 209 Size:200 Segment: (632490, 632690) Annotations:['A'] Skipping 209 Size:200 Segment: (632633, 632833)

Annotations:['A']
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Segment: (639437, 639637)
Annotations:['A']
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Size:200
Segment: (645268, 645468)
Annotations:['A']
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Skipping 209 Size:200
Segment: (647378, 647578)
Annotations:['A']
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Size:200
Segment: (12447, 12647)
Annotations:[]
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Skipping 210 Size:200
Segment: (19043, 19243)
Annotations:[]
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Skipping 210
Size:200
Segment: (75601, 75801)
Annotations:['a']
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Size:200
Segment: (80527, 80727)
Annotations:[]
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Skipping 210
Size:200
Segment: (93326, 93526)
Annotations:[]
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Skipping 210 Size:200
Size:200 Segment:(96721, 96921)
Annotations:['a']
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Skipping 210
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Segment: (115848, 116048)
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Skipping 210
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Segment: (151672, 151872)
Annotations: []
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Segment: (151994, 152194)
Annotations:[]
Skipping 210
Size:200
Segment: (152683, 152883)
Annotations:[]
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Size:200
Segment: (170546, 170746)
Annotations:
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Size:200
Segment: (197767, 197967)
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Size:200
Segment: (200982, 201182)
Annotations:[]
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Size:200
Segment: (202101, 202301)
Annotations: []
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Size:200
Segment: (219474, 219674)
Annotations:[]
Skipping 210
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Segment: (262217, 262417)
Annotations:[]
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Skipping 210
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Segment: (277766, 277966)
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Size:200
Segment: (303081, 303281)
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Skipping 210
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Segment: (326685, 326885)
Annotations:['F']
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Segment: (340421, 340621)
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Size:200
Segment: (346070, 346270)
Annotations:[]
Skipping 210
Size:200
Segment: (346180, 346380)
Annotations:['~']
Skipping 210
Size:200
Segment: (349321, 349521)
Annotations:['a']
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Size:200
Segment: (366141, 366341)
Annotations: []
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Segment: (378200, 378400)
Annotations:[]
Skipping 210
Size:200
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Segment: (379959, 380159)
Annotations:['F']
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Size:200
Segment: (380867, 381067)
Annotations:['a']
Skipping 210
Size:200
Segment: (388614, 388814)
Annotations:['F']
Skipping 210
Size:200
Segment: (390547, 390747)
Annotations:[]
Skipping 210
Size:200
Segment: (396407, 396607)
Annotations:['F']
Skipping 210
Size:200
Segment: (399208, 399408)
Annotations:[]
Skipping 210
Size:200
Segment: (409252, 409452)
Annotations:['F']
Skipping 210
Size:200
Segment: (411394, 411594)
Annotations:[]
Skipping 210
Size:200
Segment: (416988, 417188)
Annotations:['a']
Skipping 210
Size:200
Segment: (428179, 428379)
Annotations: ['a']
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Skipping 210
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Segment: (440430, 440630)
Annotations:[]
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Skipping 210
Size:200
Segment: (445817, 446017)
Annotations:['a']
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Skipping 210 Size:200
Segment: (446241, 446441)
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Skipping 210
Size:200
Segment: (460179, 460379)
Annotations:[]
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Skipping 210
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Segment: (461836, 462036)
Annotations:[]
Skipping 210
Size:200
Segment: (493122, 493322)
Annotations:[]
Skipping 210
Size:200
Segment: (496716, 496916)
Annotations:[]
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Skipping 210
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Segment: (506887, 507087)
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Segment: (512255, 512455)
Annotations:[]
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Skipping 210
Size:200
Segment: (515506, 515706)

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Annotations:[]
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Annotations:[]
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Skipping 210
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Segment: (552143, 552343)
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Size:200
Segment: (562594, 562794)
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Segment: (565936, 566136)
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Segment: (608473, 608673)
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Segment: (628382, 628582)
Annotations:
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Segment: (633205, 633405)
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Size:200
Segment: (634564, 634764)
Annotations:['F']
Skipping 210
Size:200
Segment: (644349, 644549)
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Segment: (649878, 650000)
Annotations:['N']
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Size:200
Segment: (12, 212)
Annotations:['+']
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Segment: (21692, 21892)
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Segment: (22643, 22843)
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Segment: (39758, 39958)
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Segment: (44466, 44666)
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Segment: (46421, 46621)
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Segment: (46818, 47018)
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Segment: (47211, 47411)
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Segment: (47599, 47799)
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Segment: (47989, 48189)
Annotations:['F']
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Segment: (48384, 48584)
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Segment: (48776, 48976)
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Segment: (49159, 49359)
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Segment: (49547, 49747)
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Segment: (50338, 50538)
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Segment: (50731, 50931)
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Segment: (51126, 51326)
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Segment: (53088, 53288)
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Segment: (53476, 53676)
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Segment: (55029, 55229)
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Segment: (55809, 56009)
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Segment: (56206, 56406)

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Segment: (56591, 56791)
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Segment: (56984, 57184)
Annotations:['F']
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Segment: (58153, 58353)
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Segment: (58539, 58739)
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Annotations:['F'] +++++++++++++++++++++++++++++++++++
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Size:200 Segment: (61285, 61485) Annotations:['F'] Skipping 213 Size:200 Segment: (62855, 63055) Annotations:['F'] Skipping 213 Size:200 Segment: (64033, 64233) Annotations:['F'] Skipping 213 Size:200 Segment: (64445, 64645) Annotations:['F'] Skipping 213 Size:200 Segment: (64821, 65021) Annotations:['F'] Skipping 213 Size:200 Segment: (65212, 65412) Annotations:['F'] Skipping 213 Size:200 Segment: (65600, 65800) Annotations:['F'] Skipping 213 Size:200 Segment: (65999, 66199) Annotations:['F'] Skipping 213 Size:200 Segment: (67159, 67359) Annotations:['F'] Skipping 213 Size:200 Segment: (68338, 68538) Annotations:['F']

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Annotations:['F']
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Segment:(69130, 69330)
Annotations:['F']
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Skipping 213
Size:200
Segment:(69519, 69719)
Annotations:['F']
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Segment: (70702, 70902)
Annotations:['F']
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Segment: (71881, 72081)
Annotations:['F']
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Skipping 213
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Segment:(72279, 72479)
Annotations:['F']
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Segment: (72664, 72864)
Annotations:['F']
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Segment:(73057, 73257)
Annotations:['F']
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Size:200
Segment:(73453, 73653)
Annotations:['F']
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Skipping 213
Size:200

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Segment: (74246, 74446)
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Segment: (74636, 74836)
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Segment: (75038, 75238)
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Segment: (75428, 75628)
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Segment: (76205, 76405)
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Segment: (77378, 77578)
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Size:200
Segment: (78174, 78374)
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Segment: (78570, 78770)
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Segment: (78959, 79159)
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Segment: (79350, 79550)
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Segment: (79745, 79945)
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Segment: (80133, 80333)
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Segment: (80522, 80722)
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Segment: (80920, 81120)
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Segment: (81122, 81322)
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Segment: (82095, 82295)
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Segment: (82891, 83091)
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Segment: (83275, 83475)

Annotations:['F']
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Segment: (83673, 83873)
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Segment: (84068, 84268)
Annotations:['F']
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Skipping 213 Size:200
Segment: (84455, 84655)
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Segment:(84849, 85049)
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Segment: (85240, 85440)
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Segment: (86822, 87022)
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Segment: (87590, 87790)
Annotations:['F']
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Segment: (89154, 89354) Annotations: ['F']
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Segment: (89553, 89753) Annotations: ['F']
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Size:200 Segment: (91919, 92119) Annotations:['F'] Skipping 213 Size:200 Segment: (92313, 92513) Annotations:['F'] Skipping 213 Size:200 Segment: (92704, 92904) Annotations:['F'] Skipping 213 Size:200 Segment: (97009, 97209) Annotations:['F'] Skipping 213 Size:200 Segment: (97788, 97988) Annotations:['F'] Skipping 213 Size:200 Segment: (99360, 99560) Annotations:['F'] Skipping 213 Size:200 Segment: (101726, 101926) Annotations:['F'] Skipping 213 Size:200 Segment: (105665, 105865) Annotations:['F'] Skipping 213 Size:200 Segment: (106854, 107054) Annotations:['F'] Skipping 213 Size:200 Segment: (108034, 108234) Annotations:['F']

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Segment: (120209, 120409)
Annotations:['F']
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Segment: (123131, 123331)
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Segment:(124913, 125113)
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Segment: (129461, 129661)
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Segment:(134392, 134592)
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Segment: (135563, 135763)
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Segment: (155871, 156071)
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Size: 200

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Segment: (158204, 158404)
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Segment: (163138, 163338)
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Segment: (163531, 163731)
Annotations:['F']
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Segment: (163933, 164133)
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Segment: (164321, 164521)
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Segment: (164721, 164921)
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Segment: (165907, 166107)
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Segment: (166293, 166493)
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Segment: (166698, 166898)
Annotations:['F']
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Segment: (168275, 168475)
Annotations:['F']
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Skipping 213
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Segment: (168675, 168875)
Annotations:['F']
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Skipping 213
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Segment: (170252, 170452)
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Segment: (171831, 172031)
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Segment: (172222, 172422)
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Skipping 213
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Segment: (172631, 172831)
Annotations:['F']
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Segment: (173023, 173223)
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Segment: (175401, 175601) Annotations: ['F']
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Segment: (175798, 175998) Annotations: ['F']
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Size:200
Segment: (176187, 176387)

Annotations:['F']
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Segment: (177776, 177976)
Annotations:['F']
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Segment:(178168, 178368)
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Segment:(178570, 178770)
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Segment:(178955, 179155)
Annotations:['F']
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Segment: (179348, 179548)
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Segment: (184474, 184674)
Annotations:['A']
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Segment:(185642, 185842)
Annotations:['F']
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Segment: (186047, 186247)
Annotations:['F']
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Skipping 213

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Segment: (187230, 187430)
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Segment: (187619, 187819)
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Segment: (188790, 188990)
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Segment: (189181, 189381)
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Segment: (189576, 189776)
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Segment: (189967, 190167)
Annotations:['F']
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Segment: (190371, 190571)
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Segment: (190767, 190967)
Annotations:['F']
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Segment: (191159, 191359)
Annotations:['F']
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Segment: (192338, 192538)
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Segment: (193128, 193328)
Annotations:['F']
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Segment: (193516, 193716)
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Segment: (193907, 194107)
Annotations:['F']
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Segment: (194300, 194500)
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Segment: (195096, 195296)
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Segment: (195489, 195689)
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Segment: (197064, 197264)
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Segment: (199217, 199417)
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Segment: (200228, 200428)
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Segment: (207139, 207339)
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Segment: (207531, 207731)
Annotations:['F']
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Segment: (207932, 208132)
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Size:200
Segment: (208318, 208518)
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Segment: (208717, 208917)
Annotations:['F']
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Segment: (209110, 209310)
Annotations:['F']
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Skipping 213 Size:200
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Annotations:['F']
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Segment: (210285, 210485)
Annotations:['F']
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Segment: (211083, 211283)
Annotations:['F']
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Segment: (211462, 211662)
Annotations:['F']
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Segment: (211870, 212070)
Annotations:['F']
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Segment: (212271, 212471)
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Segment: (212668, 212868)
Annotations:['F']
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Segment: (213449, 213649)
Annotations:['F']
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Segment: (213857, 214057)

Annotations:['F']
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Segment: (214637, 214837)
Annotations:['F']
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Skipping 213 Size:200
Segment: (215026, 215226)
Annotations:['F']
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Skipping 213
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Segment: (215431, 215631)
Annotations:['F']
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Segment: (215826, 216026)
Annotations:['F']
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Skipping 213
Size:200
Segment: (216225, 216425) Annotations: ['F']
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Skipping 213
Size:200
Segment: (216620, 216820)
Annotations:['F']
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Skipping 213
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Segment: (217020, 217220)
Annotations:['F']
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Skipping 213
Size:200
Segment: (218793, 218993)
Annotations:['F']
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Skipping 213

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Segment: (276421, 276621)
Annotations:['F']
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Segment:(276826, 277026)
Annotations:['F']
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Skipping 213
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Segment: (277220, 277420)
Annotations:['F']
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Skipping 213
Size:200
Segment: (277628, 277828)
Annotations:['F']
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Size:200 Segment:(279607, 279807)
Annotations:['F']
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Skipping 213
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Segment: (280008, 280208)
Annotations:['F']
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Segment: (280408, 280608)
Annotations:['F']
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Segment: (280819, 281019)
Annotations:['F']
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Segment: (281208, 281408)
Annotations:['F']
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Skipping 213
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Segment: (282011, 282211)
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Segment: (283598, 283798)
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Segment: (285191, 285391)
Annotations:['F']
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Size:200
Segment: (289153, 289353)
Annotations:['F']
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Segment: (291148, 291348)
Annotations:['F']
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Segment: (293117, 293317)
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Segment: (293519, 293719)
Annotations:['F']
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Segment: (294310, 294510)
Annotations:['F']
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Skipping 213
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Segment: (294703, 294903)
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Segment: (295893, 296093)
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Skipping 213 Size:200
Segment: (296301, 296501)
Annotations:['F']
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Segment: (297487, 297687)
Annotations:['F']
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Skipping 213
Size:200
Segment: (298689, 298889)
Annotations:['F']
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Skipping 213
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Size: 200
Size:200 Segment:(299092, 299292)
Segment: (299092, 299292)
Segment:(299092, 299292) Annotations:['F'] +++++++++++++++++++++++++++++++++++
Segment: (299092, 299292) Annotations: ['F'] +++++++++++++++++++++++++++++++++++
Segment: (299092, 299292) Annotations: ['F'] +++++++++++++++++++++++++++++++++++
<pre>Segment:(299092, 299292) Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
Segment: (299092, 299292) Annotations: ['F'] +++++++++++++++++++++++++++++++++++
<pre>Segment:(299092, 299292)   Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
Segment:(299092, 299292) Annotations:['F'] +++++++++++++++++++++++++++++++++++
<pre>Segment:(299092, 299292)    Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)   Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)    Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)    Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)   Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)    Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)    Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)    Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)    Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>
<pre>Segment:(299092, 299292)    Annotations:['F'] +++++++++++++++++++++++++++++++++++</pre>

Annotational[IEI]
Annotations:['F']
Skipping 213
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Segment: (301491, 301691)
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Skipping 213
Size:200
Segment: (303483, 303683)
Annotations:['F']
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Skipping 213
Size:200
Segment: (304284, 304484)
Annotations:['F']
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Skipping 213
Size:200
Segment: (305466, 305666)
Annotations:['A']
+++++++++++++++++++++++++++++++++++++++
Skipping 213
Size:200
Segment: (307885, 308085)
Annotations:['F']
Annotations:['F']
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Skipping 213
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Segment: (321850, 322050)
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Skipping 213
Size:200
Segment: (322636, 322836)
Annotations:['F']
Skipping 213
Size:200
Segment: (324235, 324435)
Annotations:['F']
Skipping 213
Size:200
Segment: (326830, 327030)
Annotations:['F']
Skipping 213
Size:200
Segment: (327421, 327621)
Annotations:['F']
Skipping 213
Size:200
Segment: (329833, 330033)
Annotations:['F']
Skipping 213
Size:200
Segment: (330228, 330428)
Annotations:['F']
Skipping 213
Size:200
Segment: (331820, 332020)
Annotations:['A']
Skipping 213
Size:200
Segment: (332782, 332982)
Annotations:['A']
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Size:200
Segment: (339810, 340010)
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Skipping 213
Size:200
Segment: (360332, 360532)
Annotations: ['A']
Skipping 213
Size:200
Segment: (375002, 375202)
Annotations:['F']
Skipping 213
Size:200
Segment: (375401, 375601)
Annotations:['F']
Skipping 213
Size:200
Segment: (375809, 376009)
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Skipping 213
Size:200
Segment: (377836, 378036)
Annotations:['F']
Skipping 213
Size:200
Segment: (378232, 378432)
Annotations:['F']
Skipping 213
Size:200
Segment: (378622, 378822)
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Skipping 213
Size:200
Segment: (379036, 379236)
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Skipping 213
Size:200
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Segment: (380233, 380433)
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Segment: (381043, 381243)
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Size:200
Segment: (382633, 382833)
Annotations:['F']
Skipping 213
Size:200
Segment: (383039, 383239)
Annotations:['F']
Skipping 213
Size:200
Segment: (383432, 383632)
Annotations:['F']
Skipping 213
Size:200
Segment: (384243, 384443)
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Skipping 213
Size:200
Segment: (385051, 385251)
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Skipping 213
Size:200
Segment: (385451, 385651)
Annotations:['F']
Skipping 213
Size:200
Segment: (388251, 388451)
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Skipping 213
Size:200
Segment: (388790, 388990)
Annotations:['A']
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Skipping 213
Size:200
Segment: (395273, 395473)
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Skipping 213
Size:200
Segment: (396886, 397086)
Annotations:['F']
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Skipping 213
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Segment: (397288, 397488)
Annotations:['F']
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Skipping 213
Size:200
Segment: (397684, 397884)
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Skipping 213
Size:200
Segment: (399284, 399484)
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Skipping 213
Size:200
Segment: (399693, 399893)
Annotations:['F']
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Skipping 213
Size:200
Segment: (402099, 402299)
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Annotations:['F']
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Skipping 213 Size:200
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Segment: (406928, 407128)
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Skipping 213 Size:200
Segment: (407333, 407533)
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Skipping 213
Size:200
Segment: (407739, 407939)
Annotations:['F']
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Skipping 213
Size:200
Segment: (408133, 408333)
Annotations:['F']
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Segment: (419023, 419223)
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Segment: (419821, 420021)
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Segment: (420230, 420430)
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Size:200
Segment: (421422, 421622)
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Segment: (421826, 422026)
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Skipping 213
Size:200
Segment: (422227, 422427)
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Size:200
Segment: (423840, 424040)
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Segment: (424642, 424842)
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Size:200
Segment: (425051, 425251)
Annotations:['F']
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Segment: (425447, 425647)
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Segment: (425843, 426043)
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Segment: (428268, 428468)
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Skipping 213
Size:200
Segment: (431088, 431288)
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Size:200
Segment:(477463, 477663) Annotations:['F']
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Segment:(477899, 478099)
Annotations:['F']
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Segment: (478287, 478487)
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Segment: (478691, 478891)
Annotations:['F']
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Segment:(479105, 479305)
Annotations:['F']
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Siza:200

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Segment: (479920, 480120)
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Segment: (480324, 480524)
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Size:200
Segment: (481553, 481753)
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Skipping 213
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Segment: (481951, 482151)
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Skipping 213
Size:200
Segment: (482762, 482962)
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Size:200
Segment: (483577, 483777)
Annotations:['F']
Skipping 213
Size:200
Segment: (484398, 484598)
Annotations:['F']
Skipping 213
Size:200
Segment: (484803, 485003)
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Skipping 213
Size:200
Segment: (485211, 485411)
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Skipping 213
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Segment: (485614, 485814)
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Skipping 213
Size: 200
Segment: (486831, 487031)
Annotations:['F']
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Skipping 213
Size:200
Segment: (487631, 487831)
Annotations:['F']
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Skipping 213
Size:200
Segment: (488052, 488252)
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Segment: (488454, 488654)
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Skipping 213
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Segment: (488856, 489056)
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Skipping 213
Size:200
Segment: (489253, 489453)
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Size:200
Segment: (490066, 490266)
Annotations:['F']
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Skipping 213
Size:200
Segment: (491690, 491890)

Annotations:['F']
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Size:200
Segment: (493318, 493518)
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Skipping 213
Size:200
Segment: (495336, 495536)
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Segment: (497772, 497972)
Annotations:['F']
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Segment: (501020, 501220)
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Skipping 213
Size:200 Segment:(503455, 503655)
Segment: (503455 503655)
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Annotations:['F']
Annotations:['F'] +++++++++++++++++++++++++++++++++++
Annotations:['F'] +++++++++++++++++++++++++++++++++++
Annotations:['F'] +++++++++++++++++++++++++++++++++++
Annotations:['F'] +++++++++++++++++++++++++++++++++++
Annotations:['F']  ++++++++++++++++++++++++++++++++++
Annotations:['F'] +++++++++++++++++++++++++++++++++++
Annotations:['F'] +++++++++++++++++++++++++++++++++++
Annotations:['F'] +++++++++++++++++++++++++++++++++++
Annotations:['F']  ++++++++++++++++++++++++++++++++++
Annotations:['F']  ++++++++++++++++++++++++++++++++++
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Annotations:['F']  ++++++++++++++++++++++++++++++++++
Annotations:['F'] +++++++++++++++++++++++++++++++++++
Annotations:['F']  ++++++++++++++++++++++++++++++++++

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Size:200
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Skipping 213
Size:200
Segment: (508738, 508938)
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Segment: (510776, 510976)
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Segment: (511168, 511368)
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Segment: (511984, 512184)
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Segment: (512805, 513005)
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Size:200
Segment: (513604, 513804)
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Size:200
Segment: (513823, 514023)
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Size:200
Segment: (514422, 514622)
Annotations:['F']
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Segment: (514838, 515038)
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Skipping 213
Size:200
Segment: (516447, 516647)
Annotations:['F']
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Skipping 213 Size:200
Segment:(517253, 517453)
Annotations:['F']
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Skipping 213
Size:200
Segment: (517670, 517870)
Annotations:['F']
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Skipping 213
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Segment: (520089, 520289)
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Segment:(524163, 524363)
Annotations:['F']
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Skipping 213
Size:200
Segment: (524561, 524761)
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Skipping 213
Size:200
Segment: (524916, 525116)
Annotations:['A']
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Skipping 213
2128:300

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Segment: (525781, 525981)
Annotations:['F']
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Size:200
Segment: (526193, 526393)
Annotations:['F']
Skipping 213
Size:200
Segment: (529045, 529245)
Annotations: ['F']
Skipping 213
Size:200
Segment: (531901, 532101)
Annotations:['F']
Skipping 213
Size:200
Segment: (532722, 532922)
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Skipping 213
Size:200
Segment: (535170, 535370)
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Skipping 213
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Segment: (535923, 536123)
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Skipping 213
Size:200
Segment: (563116, 563316)
Annotations:['a']
Skipping 213
Size:200
Segment: (563236, 563436)
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Skipping 213
Size:200
Segment: (572078, 572278)
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Segment: (577196, 577396)
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Skipping 213
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Segment: (579261, 579461)
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Segment: (579667, 579867)
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Skipping 213
Size:200
Segment: (580069, 580269)
Annotations:['F']
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Skipping 213
Size: 200
Segment: (580478, 580678)
Annotations:['F']
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Skipping 213
Size: 200
Segment: (581304, 581504)
Annotations:['F']
Skipping 213 Size: 200
Segment: (581697, 581897)
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Skipping 213 Size:200
Segment: (582128, 582328)
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Skipping 213
Size:200
Segment: (583340, 583540)
Annotations:['F']
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Skipping 213
Size:200
Segment: (594347, 594547)
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Annotations:['F']
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Skipping 213 Size:200
Segment: (596791, 596991)
Annotations:['F']
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Skipping 213
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Segment: (597191, 597391)
Annotations:['F']
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Skipping 213 Size:200
Segment: (597602, 597802)
Annotations:['F']
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Skipping 213
Size:200
Segment: (597997, 598197)
Annotations:['F']
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Skipping 213
Size:200
g , (E00700 E00000)
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Annotations:['A']
Annotations:['A']
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++

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Size:200
Segment: (615962, 616162)
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Skipping 213
Size:200
Segment: (617199, 617399)
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Skipping 213
Size:200
Segment: (619245, 619445)
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Segment: (619651, 619851)
Annotations:['F']
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Size:200
Segment: (622509, 622709)
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Size:200
Segment: (623335, 623535)
Annotations:['F']
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Size:200
Segment: (626596, 626796)
Annotations:['F']
Skipping 213
Size:200
Segment: (627005, 627205)
Annotations:['F']
Skipping 213
Size:200
Segment: (630255, 630455)
Annotations:['A']
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Skipping 213
Size:200
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Segment: (640116, 640316)
Annotations:['F']
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Skipping 213 Size:200
Size:200 Segment:(642971, 643171)
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Skipping 213
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Segment:(643797, 643997)
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Skipping 213
Size:200
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Skipping 214
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Segment: (113505, 113705)
Annotations:['Q']
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Skipping 214
Size:200

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Segment: (144759, 144959)
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Skipping 214
Size:200
Segment: (172735, 172935)
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Skipping 214
Size:200
Segment: (203185, 203385)
Annotations:[]
Skipping 214
Size:200
Segment: (226581, 226781)
Annotations:[]
Skipping 214
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Segment: (283523, 283723)
Annotations:[]
Skipping 214
Size:200
Segment: (295809, 296009)
Annotations:[]
Skipping 214
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Segment: (319756, 319956)
Annotations:[]
Skipping 214
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Segment: (395259, 395459)
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Skipping 214
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Segment: (583082, 583282)
Annotations:[]
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Skipping 214
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Skipping 214 Size:171
Segment: (649829, 650000)
Annotations:['L']
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Skipping 215
Size:200
Segment: (9154, 9354)
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Skipping 215
Size:200
Segment: (14955, 15155)
Annotations:[]
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Skipping 215
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Segment: (19491, 19691)
Annotations:[]
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Skipping 215
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Segment: (27703, 27903)
Annotations:[]
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Skipping 215
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Segment: (34783, 34983)
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Skipping 215
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Segment: (64728, 64928)
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Segment: (65207, 65407)

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Skipping 215
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Segment: (102659, 102859)
Annotations:['A']
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Segment: (131390, 131590)
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Skipping 215
Size:200
Segment: (137156, 137356)
Annotations:['A']
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Skipping 215
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Segment: (173268, 173468)
Annotations:[]
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Skipping 215
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Segment: (179654, 179854)
Annotations:[]
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Skipping 215
Size:200
Segment: (189573, 189773)
Annotations:[]
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Skipping 215
Size:200
Segment: (192061, 192261)
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Skipping 215
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Segment: (206193, 206393)
Annotations:[]
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Skipping 215
Size:200
Segment: (212982, 213182)
Annotations:['A']
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Skipping 215
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Skipping 215
Size:200
Segment: (267641, 267841)
Annotations: []
Skipping 215
Size:200
Segment: (324082, 324282)
Annotations:[]
Skipping 215
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Segment: (346567, 346767)
Annotations:[]
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Annotations:
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Segment: (443370, 443570)
Annotations:[]
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Size:200
Segment: (469712, 469912)
Annotations:[]
Skipping 215
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Segment: (510255, 510455)
Annotations:[]
Skipping 215
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Segment: (526192, 526392)
Annotations:[]
Skipping 215
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Segment: (530617, 530817)
Annotations:[]
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Skipping 215
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Skipping 215
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Skipping 215
Size:193
Segment: (649807, 650000)
Annotations:['N']
Skipping 217
Size:200
Segment: (144, 344)
Annotations:[]
Skipping 217
Size:200
Segment: (1656, 1856)
Annotations:['f']
Skipping 217
Size:200
Segment: (28705, 28905)
Annotations:['f']
Skipping 217
Size:200
Segment: (29242, 29442)
Annotations:['f']
Skipping 217
Size:200
Segment: (30966, 31166)
Annotations:['f', '+']
Skipping 217
Size:200
Segment: (31520, 31720)
Annotations:['f']
Skipping 217
Size:200
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Segment: (32072, 32272)
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Size:200
Segment: (32608, 32808)
Annotations:['f']
Skipping 217
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Segment: (17849, 18049)
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Skipping 220
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Segment: (114646, 114846)
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Segment: (116049, 116249)
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Segment: (148337, 148537)
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Segment: (148500, 148700)
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Segment: (149527, 149727)
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Segment: (149692, 149892)
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Segment: (149960, 150160)
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Size:200
Segment: (150801, 151001)
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Size:200
Segment: (150926, 151126)
Annotations:['A']
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Segment: (155220, 155420)
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Skipping 220
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Segment: (223932, 224132)
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Segment: (225406, 225606)
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Skipping 220 Size:200
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Segment: (228265, 228465)
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Segment: (229405, 229605)
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Size:200 Segment: (397046, 397246) Annotations:['A'] Skipping 220 Size:200 Segment: (397203, 397403) Annotations: ['A'] Skipping 220 Size:200 Segment: (399799, 399999) Annotations:['A'] Skipping 220 Size:200 Segment: (399953, 400153) Annotations:['A'] Skipping 220 Size:200 Segment: (416710, 416910) Annotations:['A'] Skipping 220 Size:200 Segment: (436714, 436914) Annotations: ['A'] Skipping 220 Size:200 Segment: (437941, 438141) Annotations:['A'] Skipping 220 Size:200 Segment: (441809, 442009) Annotations: ['A'] Skipping 220 Size:200 Segment: (443009, 443209) Annotations:['A'] Skipping 220 Size:200 Segment: (443166, 443366) Annotations:['A']

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Segment: (444637, 444837)
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Segment: (444811, 445011)
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Segment: (645650, 645850)

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Skipping 221
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Segment: (160, 360)
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Skipping 222 Size:200
Segment: (192080, 192280)
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Segment: (193653, 193853)
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Segment: (194222, 194422)
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Segment: (194735, 194935)
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Segment: (195272, 195472)
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Skipping 222
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Segment: (197687, 197887)
Annotations:['j']
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Skipping 222

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Segment: (198485, 198685)
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Segment: (198853, 199053)
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Segment: (199226, 199426)
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Segment: (201467, 201667)
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Segment: (204736, 204936)
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Segment: (205281, 205481)
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Segment: (225078, 225278)
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Segment: (230208, 230408)
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Segment: (230597, 230797)
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Segment: (232226, 232426)
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Segment: (232591, 232791)
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Segment: (246193, 246393)
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Segment: (247239, 247439)
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Segment: (248090, 248290)
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Segment: (248951, 249151)
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Segment: (254765, 254965)

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Segment: (268185, 268385)
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Segment: (275506, 275706)
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Segment: (292101, 292301)
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Segment: (300268, 300468) Annotations: ['j']
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Segment: (310369, 310569)
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Segment: (320637, 320837)
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Size:200
Segment: (344551, 344751)
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Size:200
Segment: (346928, 347128)
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Skipping 222
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Segment: (348112, 348312)
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Segment: (387112, 387312)
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Segment: (387497, 387697)
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Segment: (387932, 388132)
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Segment: (388122, 388322)
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Segment: (388876, 389076)
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Segment: (390652, 390852)
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Segment: (391104, 391304)
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Segment: (391487, 391687)
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Segment: (391844, 392044)
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Size:200
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Segment: (403843, 404043)
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Segment: (417146, 417346)
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Segment: (418638, 418838)
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Segment: (419163, 419363)
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Size:200
Segment: (419717, 419917)
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Annotations:['A']
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Segment: (421340, 421540)
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Segment: (421863, 422063)
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Segment: (422408, 422608)
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Segment: (425971, 426171)
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Segment: (426491, 426691)
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Size:200
Segment: (426851, 427051)
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Segment: (427071, 427271)
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Size:200
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Segment: (431341, 431541)
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Skipping 222
Size:200
Segment: (431519, 431719)
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Size:200
Segment: (431887, 432087)
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Segment: (432060, 432260)
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Size:200
Segment: (432420, 432620)
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Segment: (432578, 432778)
Annotations:['A']
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Segment: (433104, 433304)
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Segment: (433798, 433998)
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Segment: (435180, 435380)
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Annotations:['j']
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Segment: (436454, 436654)
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Segment: (436970, 437170)
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Size:200
Segment: (437513, 437713)
Annotations:['A']
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Segment: (443504, 443704)
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Segment: (443927, 444127)
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Segment: (445706, 445906)
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Segment: (449794, 449994)
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Size:200
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Segment: (456278, 456478)
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Segment: (456695, 456895)
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Segment: (457055, 457255)
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Size:200
Segment: (457634, 457834)
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Segment: (458822, 459022)
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Segment: (459179, 459379)
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Segment: (461245, 461445)
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Size:200
Segment: (461523, 461723)
Annotations:['j']
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Size:200
Segment: (461814, 462014)
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Size:200
Segment: (462157, 462357)
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Segment: (462900, 463100)
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Segment: (463088, 463288)
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Segment: (463676, 463876)
Annotations:['A']
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Size:200
Segment: (466189, 466389)
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Segment: (466319, 466519)
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Segment: (467940, 468140)
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Segment: (469323, 469523)
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Segment: (475819, 476019)
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Segment: (475961, 476161)
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Segment: (476520, 476720)
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Segment: (476656, 476856)
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Segment: (478395, 478595)
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Segment: (486879, 487079)
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Segment: (515608, 515808)
Annotations:['A']
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Size:200
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Segment: (515893, 516093)
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Segment: (517644, 517844)
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Size:200
Segment: (520087, 520287)
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Skipping 222
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Segment: (521357, 521557)
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Segment: (524064, 524264)
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Segment: (524525, 524725)
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Segment: (524966, 525166)
Annotations:['j']
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Segment: (525359, 525559)
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Skipping 222
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Segment: (525535, 525735)
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Segment: (525688, 525888)

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Size:200
Segment: (529238, 529438)
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Segment: (530288, 530488)
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Segment: (530706, 530906)
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Size:200
Segment: (531915, 532115)
Annotations:['j']
Skipping 222
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Segment: (535554, 535754)
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Segment: (543658, 543858)
Annotations: ['j']
Skipping 222
Size:200
Segment: (543979, 544179)
Annotations:['j']
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Skipping 222
Size:200
Segment: (544352, 544552)
Annotations:['j']
Skipping 222
Size:200
Segment: (552545, 552745)
Annotations: ['A', '+']
Skipping 222
Size:200
Segment: (554773, 554973)
Annotations:[]
Skipping 222
Size:200
Segment: (556675, 556875)
Annotations:['j']
Skipping 222
Size:200
Segment: (556995, 557195)
Annotations: ['j']
Skipping 222
Size:200
Segment: (557417, 557617)
Annotations:['j']
Skipping 222
Size:200
Segment: (557875, 558075)
Annotations:['j']
Skipping 222
Size:200
Segment: (558348, 558548)
Annotations:['j']
Skipping 222
Size:200
Segment: (565054, 565254)
Annotations:['A']
Skipping 222
Size:200
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Segment: (567857, 568057)
Annotations:['+', 'j']
Skipping 222
Size:200
Segment: (568167, 568367)
Annotations:['j']
Skipping 222
Size:200
Segment: (568575, 568775)
Annotations:['j']
Skipping 222
Size:200
Segment: (569021, 569221)
Annotations:['j']
Skipping 222
Size:200
Segment: (569978, 570178)
Annotations:['j']
Skipping 222
Size:200
Segment: (570818, 571018)
Annotations:['A']
Skipping 222
Size:200
Segment: (571970, 572170)
Annotations:['j']
Skipping 222
Size:200
Segment: (572395, 572595)
Annotations:['j']
Skipping 222
Size:200
Segment: (572778, 572978)
Annotations: ['j']
Skipping 222
Size:200
Segment: (573117, 573317)
Annotations:['j']
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Skipping 222
Size:200
Segment: (573514, 573714)
Annotations:['j']
Skipping 222
Size:200
Segment: (574321, 574521)
Annotations:['A']
Skipping 222
Size:200
Segment: (574463, 574663)
Annotations:['A']
Skipping 222
Size:200
Segment: (575239, 575439)
Annotations:['A', '+']
Skipping 223
Size:200
Segment: (141, 341)
Annotations:[]
Skipping 223
Size:200
Segment: (22985, 23185)
Annotations:['A']
Skipping 223
Size:200
Segment: (43330, 43530)
Annotations:['e', '+']
Skipping 223
Size:200
Segment: (51211, 51411)
Annotations:['F']
Skipping 223
Size:200
Segment: (52269, 52469)
Annotations:['F']
Skipping 223
Size:200
Segment: (53311, 53511)
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Annotations:['F']
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Skipping 223
Size:200
Segment: (54312, 54512)
Annotations:['F']
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Skipping 223
Size:200
Segment: (55394, 55594)
Annotations:['F']
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Skipping 223 Size:200
Segment: (56469, 56669)
Annotations:['F', '~']
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Skipping 223
Size:200
Segment:(62125, 62325)
Annotations:['A']
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Skipping 223
Size:200
Segment:(62900, 63100)
Annotations:['A']
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Skipping 223
Size:200
Segment: (66897, 67097)
Annotations:['A']
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Skipping 223
Size:200
Segment: (81272, 81472)
Annotations:['A']
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Skipping 223 Size:200
Size.200 Segment:(81573, 81773)
Annotations:['e']
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Skipping 223
Size:200
Segment:(100439, 100639)
Annotations:['A']
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Skipping 223
·· rr -0 ==-

Size:200 Segment: (106177, 106377) Annotations:['A'] Skipping 223 Size:200 Segment: (126051, 126251) Annotations: ['A'] Skipping 223 Size:200 Segment: (132959, 133159) Annotations: ['A'] Skipping 223 Size:200 Segment: (133221, 133421) Annotations:['e'] Skipping 223 Size:200 Segment: (134613, 134813) Annotations:['A'] Skipping 223 Size:200 Segment: (157234, 157434) Annotations: ['A'] Skipping 223 Size:200 Segment: (162894, 163094) Annotations:['A'] Skipping 223 Size:200 Segment: (163637, 163837) Annotations: ['A'] Skipping 223 Size:200 Segment: (167046, 167246) Annotations:['A'] Skipping 223 Size:200 Segment: (168778, 168978) Annotations:['A']

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Skipping 223
Size:200
Segment: (169522, 169722)
Annotations:['A']
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Skipping 223
Size:200
Segment:(171224, 171424)
Annotations:['A']
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Skipping 223
Size:200
Segment: (172483, 172683)
Annotations:['A']
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Skipping 223
Size:200
Segment:(174707, 174907) Annotations:['A']
annotations:[^A^] +++++++++++++++++++++++++++++++++++
Skipping 223
Size:200
Segment:(174925, 175125)
Annotations:['A']
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Skipping 223
Size:200
Segment: (184483, 184683)
Annotations:['A']
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Skipping 223
Size:200
Segment:(184728, 184928)
Annotations:['e']
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Skipping 223
Size:200
Segment: (190754, 190954)
Annotations:['A']
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Skipping 223
Size:200
Segment: (191008, 191208)
Annotations:['e'] +++++++++++++++++++++++++++++++++++
Skipping 223

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Segment: (196005, 196205)
Annotations:['A']
Skipping 223
Size:200
Segment: (196774, 196974)
Annotations:['A']
Skipping 223
Size:200
Segment: (200414, 200614)
Annotations:['A']
Skipping 223
Size:200
Segment: (204840, 205040)
Annotations:['A']
Skipping 223
Size:200
Segment: (205568, 205768)
Annotations: ['A']
Skipping 223
Size:200
Segment: (206542, 206742)
Annotations:['A']
Skipping 223
Size:200
Segment: (207271, 207471)
Annotations:['F']
Skipping 223
Size:200
Segment: (228204, 228404)
Annotations:['A']
Skipping 223
Size:200
Segment: (228417, 228617)
Annotations:['A']
Skipping 223
Size:200
Segment: (229232, 229432)
Annotations:['A']
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Skipping 223
Size:200
Segment: (252420, 252620)
Annotations:['A']
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Skipping 223
Size:200
Segment: (252605, 252805)
Annotations:['A']
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Skipping 223 Size:200
Segment: (262019, 262219)
Annotations:['A']
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Skipping 223
Size:200
Segment: (284578, 284778)
Annotations:['A']
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Skipping 223
Size:200
Segment: (289737, 289937)
Annotations:['A']
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Skipping 223 Size:200
Segment: (289923, 290123)
Annotations:['A']
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Skipping 223 Size: 200
5-25-25
Segment: (290206, 290406) Annotations: ['e']
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Skipping 223 Size:200
Segment: (296677, 296877) Annotations: ['A']
Annotations: ['A']
Skipping 223
Size:200
Segment: (296853, 297053)
Annotations:['A']
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Skipping 223
Size: 200
Segment: (299512, 299712)

Annotations:['F']
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Skipping 223 Size:200
Segment: (300011, 300211)
Annotations:['F']
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Skipping 223
Size:200
Segment: (300520, 300720)
Annotations:['F']
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Skipping 223 Size:200
Segment: (301017, 301217)
Annotations:['F']
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Skipping 223
Size:200
Segment: (309871, 310071)
Annotations:['A']
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Skipping 223
Size:200
Segment: (310088, 310288)
Annotations:['A']
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Skipping 223 Size:200
Size:200 Segment:(315789, 315989)
Annotations:['A']
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Size:200
Segment: (318492, 318692)
Annotations:['A']
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Skipping 223
Size:200
Segment:(322730, 322930)
Annotations:['A']
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Skipping 223
Size:200
Segment: (324272, 324472)
Annotations:['A']
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Skipping 223

Size:200 Segment: (324520, 324720) Annotations:['A'] Skipping 223 Size:200 Segment: (327956, 328156) Annotations: ['A'] Skipping 223 Size:200 Segment: (328163, 328363) Annotations:['e'] Skipping 223 Size:200 Segment: (334425, 334625) Annotations:['A'] Skipping 223 Size:200 Segment: (345658, 345858) Annotations:['A'] Skipping 223 Size:200 Segment: (352113, 352313) Annotations: ['A'] Skipping 223 Size:200 Segment: (364025, 364225) Annotations:['A'] Skipping 223 Size:200 Segment: (372126, 372326) Annotations:['F'] Skipping 223 Size:200 Segment: (375339, 375539) Annotations:['A'] Skipping 223 Size:200 Segment: (394108, 394308) Annotations:['A']

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Skipping 223
Size:200
Segment: (414133, 414333)
Annotations:['A']
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Skipping 223
Size:200
Segment:(415145, 415345)
Annotations:['e']
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Skipping 223
Size:200
Segment: (415642, 415842)
Annotations:['a']
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Skipping 223
Size:200
Segment: (424372, 424572)
Annotations:['A']
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Skipping 223
Size:200
Segment:(454923, 455123) Annotations:['A']
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Skipping 223
Size:200
Segment:(455159, 455359)
Annotations:['e']
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Skipping 223
Size:200
Segment: (464906, 465106)
Annotations:['A']
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Skipping 223
Size:200
Segment: (482900, 483100)
Annotations:['F']
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Skipping 223
Size:200
Segment: (484848, 485048)
Annotations:['A']
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Skipping 223
Size: 200

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Segment: (535624, 535824)
Annotations:['A']
Skipping 223
Size:200
Segment: (535911, 536111)
Annotations:['e']
Skipping 223
Size:200
Segment: (538378, 538578)
Annotations:['A']
Skipping 223
Size:200
Segment: (544568, 544768)
Annotations:['F']
Skipping 223
Size:200
Segment: (545034, 545234)
Annotations: ['A']
Skipping 223
Size:200
Segment: (550545, 550745)
Annotations:['e']
Skipping 223
Size:200
Segment: (551026, 551226)
Annotations:['e']
Skipping 223
Size:200
Segment: (559678, 559878)
Annotations:['e']
Skipping 223
Size:200
Segment: (575739, 575939)
Annotations:['A']
Skipping 223
Size:200
Segment: (575944, 576144)
Annotations:['A']
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Skipping 223 Size:200 Segment: (586872, 587072) Annotations:['A'] Skipping 223 Size:200 Segment: (590561, 590761) Annotations:['A'] Skipping 223 Size:200 Segment: (592305, 592505) Annotations:['A'] Skipping 223 Size:200 Segment: (592595, 592795) Annotations: ['e'] Skipping 223 Size:200 Segment: (594481, 594681) Annotations:['A'] Skipping 223 Size:200 Segment: (616830, 617030) Annotations:['e'] Skipping 223 Size:200 Segment: (618565, 618765) Annotations:['A'] Skipping 223 Size:200 Segment: (620033, 620233) Annotations: ['A'] Skipping 223 Size:200 Segment: (626854, 627054) Annotations:['A'] Skipping 223 Size:200 Segment: (632845, 633045)

Annotations:['A']
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Skipping 223
Size:200
Segment: (633121, 633321)
Annotations:['e']
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Skipping 223
Size:200
Segment: (634352, 634552)
Annotations:['A']
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Skipping 228
Size:200
Segment: (5522, 5722)
Annotations:[' ']
######################################
Skipping 228 Size:200
Segment: (115786, 115986)
Annotations:
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Skipping 228
Size:200
(1000000)
Segment: (120007, 120207)
Segment: (120007, 120207) Annotations: []
-
Annotations:[]
Annotations:[] ++++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++
Annotations:[] ++++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++
Annotations:[] ++++++++++++++++++++++++++++++++++++
Annotations:[] ++++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++
Annotations:[]  +++++++++++++++++++++++++++++++++++

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Size:193
Segment: (649807, 650000)
Annotations:['R']
Skipping 232
Size:200
Segment: (24, 224)
Annotations:['+']
Skipping 232
Size:200
Segment: (133, 333)
Annotations:[]
Skipping 232
Size:200
Segment: (282, 482)
Annotations:[]
Skipping 232
Size:200
Segment: (678, 878)
Annotations:['A']
Skipping 232
Size:200
Segment: (901, 1101)
Annotations: ['A']
Skipping 232
Size:200
Segment: (1842, 2042)
Annotations:['A']
Skipping 232
Size:200
Segment: (2096, 2296)
Annotations: ['A']
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Size:200
Segment: (2221, 2421)
Annotations:[]
Skipping 232
Size:200
Segment: (2979, 3179)
Annotations:['A']
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Skipping 232
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Segment: (3823, 4023)
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Segment: (4691, 4891)
Annotations: ['A']
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Size:200
Segment: (5499, 5699)
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Size:200
Segment: (5768, 5968)
Annotations: ['A']
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Size:200
Segment: (6661, 6861)
Annotations: ['A']
Skipping 232
Size:200
Segment: (6922, 7122)
Annotations:['A']
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Size:200
Segment: (7146, 7346)
Annotations:['A']
Skipping 232
Size:200
Segment: (7406, 7606)
Annotations: ['A']
Skipping 232
Size:200
Segment: (7667, 7867)
Annotations:['A']
Skipping 232
Size:200
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Segment: (7916, 8116)
Annotations:['A']
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Size:200
Segment: (8168, 8368)
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Skipping 232
Size:200
Segment: (10454, 10654)
Annotations:['A']
Skipping 232
Size:200
Segment: (10709, 10909)
Annotations:['A']
Skipping 232
Size:200
Segment: (11617, 11817)
Annotations: ['A']
Skipping 232
Size:200
Segment: (11887, 12087)
Annotations:['A']
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Size:200
Segment: (12150, 12350)
Annotations:['A']
Skipping 232
Size:200
Segment: (12405, 12605)
Annotations:['A']
Skipping 232
Size:200
Segment: (12660, 12860)
Annotations:['A']
Skipping 232
Size:200
Segment: (12949, 13149)
Annotations:['A']
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Skipping 232
Size:200
Segment: (13202, 13402)
Annotations:['A']
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Skipping 232
Size:200
Segment: (13439, 13639)
Annotations:['A']
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Skipping 232
Size:200
Segment: (13732, 13932)
Annotations:['A']
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Skipping 232
Size:200
Segment: (13971, 14171)
Annotations:['A']
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Skipping 232
Size:200
Segment: (14258, 14458)
Annotations:['A']
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Skipping 232
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Segment: (15880, 16080)
Annotations:['A']
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Skipping 232
Size:200
Segment: (16166, 16366)
Annotations:['A']
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Skipping 232
Size:200
Segment: (17110, 17310)
Annotations:['A']
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Size: 200
Segment: (17363, 17563)
Annotations:['A']
Skipping 232 Size:200
Segment: (17627, 17827)

Annotations:['A']
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Skipping 232
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Segment: (19043, 19243)
Annotations:['A']
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Skipping 232
Size:200
Segment: (19304, 19504)
Annotations:['A']
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Skipping 232 Size:200
Segment:(19591, 19791)
Annotations:['A']
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Skipping 232
Size:200
Segment: (19847, 20047)
Annotations:['A']
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Skipping 232
Size:200
Segment: (20112, 20312)
Annotations:['A']
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Skipping 232
Size:200
Segment: (21718, 21918)
Annotations:['A']
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Skipping 232
Size:200
Segment: (21979, 22179)
Annotations:['A']
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Skipping 232
Size:200
Segment: (22904, 23104)
Annotations: ['A']
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Skipping 232
Size:200
Segment: (23170, 23370)
Annotations:['A']
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Skipping 232

Size:200 Segment: (24040, 24240) Annotations:['A'] Skipping 232 Size:200 Segment: (24298, 24498) Annotations: ['A'] Skipping 232 Size:200 Segment: (24553, 24753) Annotations: ['A'] Skipping 232 Size:200 Segment: (26989, 27189) Annotations:['A'] Skipping 232 Size:200 Segment: (27246, 27446) Annotations:['A'] Skipping 232 Size:200 Segment: (27472, 27672) Annotations: ['A'] Skipping 232 Size:200 Segment: (27766, 27966) Annotations:['A'] Skipping 232 Size:200 Segment: (28022, 28222) Annotations: ['A'] Skipping 232 Size:200 Segment: (28278, 28478) Annotations:['A'] Skipping 232 Size:200 Segment: (28531, 28731) Annotations:['A']

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Skipping 232
Size:200
Segment:(28791, 28991)
Annotations:['A']
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Skipping 232
Size:200
Segment: (29028, 29228)
Annotations:['A']
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Skipping 232
Size:200
Segment:(29319, 29519) Annotations:['A']
Annotations:['A']
Skipping 232
Size:200
Segment:(30170, 30370)
Annotations: ['A']
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Skipping 232
Size:200
Segment:(30459, 30659)
Annotations:['A']
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Skipping 232
Size:200
Segment:(30717, 30917)
Annotations:['A']
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Skipping 232
Size:200
Segment: (31449, 31649)
Annotations:['A']
Skipping 232 Size:200
Segment:(31734, 31934)
Annotations:['A']
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Skipping 232
Size: 200
Segment: (32669, 32869)
Annotations:['A']
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Skipping 232
Size: 200

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Segment: (32933, 33133)
Annotations:['A']
Skipping 232
Size:200
Segment: (33165, 33365)
Annotations:['A']
Skipping 232
Size:200
Segment: (33451, 33651)
Annotations:['A']
Skipping 232
Size:200
Segment: (33715, 33915)
Annotations:['A']
Skipping 232
Size:200
Segment: (34501, 34701)
Annotations: ['A']
Skipping 232
Size:200
Segment: (34765, 34965)
Annotations: ['A']
Skipping 232
Size:200
Segment: (35695, 35895)
Annotations:['A']
Skipping 232
Size:200
Segment: (35933, 36133)
Annotations:['A']
Skipping 232
Size:200
Segment: (36198, 36398)
Annotations:['A']
Skipping 232
Size:200
Segment: (37124, 37324)
Annotations:['A']
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Size:200
Segment: (37399, 37599)
Annotations:['A']
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Skipping 232
Size:200
Segment: (38350, 38550)
Annotations:['A']
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Skipping 232
Size:200
Segment: (38642, 38842)
Annotations:['A']
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Skipping 232
Size:200
Segment: (38903, 39103)
Annotations:['A']
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Skipping 232
Size:200
Segment: (39849, 40049)
Annotations:['A']
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Skipping 232
Skipping 232 Size:200
Size:200
Size:200 Segment:(40108, 40308)
Size:200 Segment:(40108, 40308) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Size:200 Segment:(40108, 40308) Annotations:['A']
Size:200 Segment:(40108, 40308) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Size:200 Segment:(40108, 40308) Annotations:['A'] +++++++++++++++++++++++++++++++++++
<pre>Size:200 Segment:(40108, 40308)   Annotations:['A'] +++++++++++++++++++++++++++++++++++</pre>
Size:200 Segment:(40108, 40308) Annotations:['A'] +++++++++++++++++++++++++++++++++++
<pre>Size:200 Segment:(40108, 40308)   Annotations:['A'] +++++++++++++++++++++++++++++++++++</pre>
Size:200 Segment:(40108, 40308) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Size:200 Segment:(40108, 40308) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Size:200 Segment:(40108, 40308) Annotations:['A'] +++++++++++++++++++++++++++++++++++
<pre>Size:200 Segment:(40108, 40308)    Annotations:['A'] +++++++++++++++++++++++++++++++++++</pre>
Size:200 Segment:(40108, 40308) Annotations:['A'] +++++++++++++++++++++++++++++++++++

Annotations:['A']
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Skipping 232
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Segment: (43410, 43610)
Annotations:['A']
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Skipping 232
Size:200
Segment: (43708, 43908)
Annotations:['A']
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Skipping 232
Size:200
Segment: (44597, 44797)
Annotations:['A']
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Skipping 232
Size:200
Segment: (44886, 45086)
Annotations:['A']
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Skipping 232
Size:200
Segment: (45145, 45345)
A
Annotations:['A']
Annotations: ['A']
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<pre>++++++++++++++++++++++++++++++++++++</pre>
######################################
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<pre>####################################</pre>
<pre>++++++++++++++++++++++++++++++++++++</pre>
<pre>####################################</pre>
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Size:200 Segment: (47119, 47319) Annotations:['A'] Skipping 232 Size:200 Segment: (47379, 47579) Annotations: ['A'] Skipping 232 Size:200 Segment: (47626, 47826) Annotations:['A'] Skipping 232 Size:200 Segment: (47868, 48068) Annotations:['A'] Skipping 232 Size:200 Segment: (48152, 48352) Annotations:['A'] Skipping 232 Size:200 Segment: (48416, 48616) Annotations: ['A'] Skipping 232 Size:200 Segment: (48679, 48879) Annotations:['A'] Skipping 232 Size:200 Segment: (48948, 49148) Annotations: ['A'] Skipping 232 Size:200 Segment: (50557, 50757) Annotations:['A'] Skipping 232 Size:200 Segment: (50819, 51019) Annotations:['A']

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Skipping 232
Size:200
Segment: (51048, 51248)
Annotations:['A']
Skipping 232
Size:200
Segment: (51311, 51511)
Annotations: ['A']
Skipping 232
Size:200
Segment: (52200, 52400)
Annotations:['A']
Skipping 232
Size:200
Segment: (52466, 52666)
Annotations: ['A']
Skipping 232
Size:200
Segment: (53374, 53574)
Annotations: ['A']
Skipping 232
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Segment: (55739, 55939)
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Skipping 232
Size:200
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Segment: (57444, 57644)
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Segment: (59901, 60101)
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Size:200 Segment:(66511, 66711) Annotations:['A']
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Segment: (78002, 78202)
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Segment: (81385, 81585)
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Segment: (81618, 81818)
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Size:200
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Segment: (84284, 84484)
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Skipping 232
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Segment: (88164, 88364)
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Segment: (88398, 88598)
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Segment: (88938, 89138)

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Segment: (91922, 92122)
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Segment: (93325, 93525)
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Skipping 232

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Segment: (99363, 99563)
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Segment: (101709, 101909)
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Size:200
Segment: (101964, 102164)
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Segment: (103577, 103777)
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Size:200
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Segment: (104778, 104978)
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Segment: (106527, 106727)
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Segment: (106781, 106981)
Annotations: ['A']
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Segment: (107042, 107242)
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Segment: (107310, 107510)
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Segment: (107572, 107772)
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Segment: (107835, 108035)
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Segment: (108102, 108302)
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Segment: (114036, 114236)

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Segment: (115941, 116141)
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Segment: (116197, 116397) Annotations: ['A']
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Segment: (116458, 116658)
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Segment: (116728, 116928)
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Segment: (117636, 117836)
Annotations:['A']
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Skipping 232

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Segment: (119685, 119885)
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Segment: (120731, 120931)
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Size:200
Segment: (121644, 121844)
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Size:200
Segment: (121910, 122110)
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Size:200
Segment: (122171, 122371)
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Segment: (123272, 123472)
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Segment: (123786, 123986)
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Segment: (124836, 125036)
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Segment: (125129, 125329)
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Segment: (125384, 125584)
Annotations:['A']
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Size:200
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Segment: (126601, 126801)
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Size:200
Segment: (126864, 127064)
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Segment: (129235, 129435)
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Segment: (129508, 129708)
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Segment: (129772, 129972)
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Segment: (130010, 130210)
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Segment: (138863, 139063)
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Segment: (139151, 139351)
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Segment: (139388, 139588)
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Size:200
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Segment: (140498, 140698)
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Segment: (144048, 144248)
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Segment: (144307, 144507)
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Segment: (146676, 146876)
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Segment: (146950, 147150)
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Segment: (147452, 147652)
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Segment: (148244, 148444)
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Size:200
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Segment: (151233, 151433)
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Segment: (151504, 151704)
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Segment: (151746, 151946)
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Segment: (160070, 160270)
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Segment: (164347, 164547)
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Segment: (164613, 164813)
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Segment: (165741, 165941)
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Segment: (169471, 169671)
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Segment: (170656, 170856)
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Skipping 232 Size:200 Segment: (175801, 176001) Annotations:['A'] Skipping 232 Size:200 Segment: (176035, 176235) Annotations:['A'] Skipping 232 Size:200 Segment: (176324, 176524) Annotations:['A'] Skipping 232 Size:200 Segment: (176587, 176787) Annotations:['A'] Skipping 232 Size:200 Segment: (177484, 177684) Annotations:['A'] Skipping 232 Size:200 Segment: (177708, 177908) Annotations:['A'] Skipping 232 Size:200 Segment: (178637, 178837) Annotations:['A'] Skipping 232 Size:200 Segment: (178877, 179077) Annotations:['A'] Skipping 232 Size:200 Segment: (179156, 179356) Annotations:['A'] Skipping 232 Size:200 Segment: (179416, 179616)

Annotations:['A']
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Skipping 232
Size:200
Segment: (179669, 179869)
Annotations:['A']
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Skipping 232
Size:200
Segment: (179930, 180130)
Annotations:['A']
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Skipping 232
Size:200
Segment: (180196, 180396)
Annotations:['A']
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Skipping 232
Size:200
Segment: (180456, 180656)
Annotations:['A']
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Skipping 232
Size:200
Segment: (181408, 181608)
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Annotations:['A']
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Annotations:['A']  ++++++++++++++++++++++++++++++++++
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A'] +++++++++++++++++++++++++++++++++++
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Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++

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Segment: (182694, 182894)
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Size:200
Segment: (182980, 183180)
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Skipping 232
Size:200
Segment: (183827, 184027)
Annotations:['A']
Skipping 232
Size:200
Segment: (184093, 184293)
Annotations:['A']
Skipping 232
Size:200
Segment: (184352, 184552)
Annotations:['A']
Skipping 232
Size:200
Segment: (184624, 184824)
Annotations: ['A']
Skipping 232
Size:200
Segment: (185486, 185686)
Annotations:['A']
Skipping 232
Size:200
Segment: (185782, 185982)
Annotations: ['A']
Skipping 232
Size:200
Segment: (186736, 186936)
Annotations:['A']
Skipping 232
Size:200
Segment: (187628, 187828)
Annotations:['A']
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Segment: (187890, 188090)
Annotations:['A']
Skipping 232
Size:200
Segment: (188126, 188326)
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Size:200
Segment: (188423, 188623)
Annotations:['A']
Skipping 232
Size:200
Segment: (188682, 188882)
Annotations: ['A']
Skipping 232
Size:200
Segment: (188945, 189145)
Annotations: ['A']
Skipping 232
Size:200
Segment: (189742, 189942)
Annotations:['A']
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Size:200
Segment: (190012, 190212)
Annotations:['A']
Skipping 232
Size:200
Segment: (190911, 191111)
Annotations: ['A']
Skipping 232
Size:200
Segment: (191803, 192003)
Annotations: ['A']
Skipping 232
Size:200
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Segment: (192067, 192267)
Annotations:['A']
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Size:200
Segment: (192321, 192521)
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Skipping 232
Size:200
Segment: (192583, 192783)
Annotations:['A']
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Size:200
Segment: (192853, 193053)
Annotations:['A']
Skipping 232
Size:200
Segment: (193112, 193312)
Annotations: ['A']
Skipping 232
Size:200
Segment: (193884, 194084)
Annotations:['A']
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Size:200
Segment: (194150, 194350)
Annotations:['A']
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Size:200
Segment: (195063, 195263)
Annotations:['A']
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Segment: (195335, 195535)
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Skipping 232
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Segment: (196284, 196484)
Annotations:['A']
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Skipping 232 Size:200 Segment: (196554, 196754) Annotations:['A'] Skipping 232 Size:200 Segment: (196783, 196983) Annotations:['A'] Skipping 232 Size:200 Segment: (197072, 197272) Annotations:['A'] Skipping 232 Size:200 Segment: (197970, 198170) Annotations:['A'] Skipping 232 Size:200 Segment: (198212, 198412) Annotations:['A'] Skipping 232 Size:200 Segment: (198475, 198675) Annotations:['A'] Skipping 232 Size:200 Segment: (198766, 198966) Annotations:['A'] Skipping 232 Size:200 Segment: (199681, 199881) Annotations:['A'] Skipping 232 Size:200 Segment: (199946, 200146) Annotations:['A'] Skipping 232 Size:200 Segment: (200179, 200379)

Annotations:['A']
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Segment: (200991, 201191)
Annotations:['A']
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Skipping 232
Size:200
Segment: (201260, 201460)
Annotations:['A']
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Skipping 232 Size:200
Segment: (201524, 201724)
Annotations:['A']
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Skipping 232
Size:200
Segment: (201783, 201983)
Annotations:['A']
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Skipping 232 Size:200
Size:200 Segment:(202048, 202248)
Annotations:['A']
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Skipping 232
Size:200
Segment: (203065, 203265)
Annotations:['A']
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Skipping 232
Size:200
Segment: (203309, 203509)
Annotations:['A']
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Skipping 232
Size:200
Segment: (203609, 203809)
Annotations:['A']
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Skipping 232
Size:200
Segment: (203872, 204072) Annotations: ['A']
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Skipping 232
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Size:200 Segment: (204136, 204336) Annotations:['A'] Skipping 232 Size:200 Segment: (205064, 205264) Annotations: ['A'] Skipping 232 Size:200 Segment: (205363, 205563) Annotations: ['A'] Skipping 232 Size:200 Segment: (206323, 206523) Annotations:['A'] Skipping 232 Size:200 Segment: (206590, 206790) Annotations:['A'] Skipping 232 Size:200 Segment: (206824, 207024) Annotations: ['A'] Skipping 232 Size:200 Segment: (207116, 207316) Annotations:['A'] Skipping 232 Size:200 Segment: (208311, 208511) Annotations: ['A'] Skipping 232 Size:200 Segment: (208578, 208778) Annotations:['A'] Skipping 232 Size:200 Segment: (209352, 209552) Annotations:['A']

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Segment: (209649, 209849)
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Size:200
Segment: (209888, 210088)
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Size:200
Segment: (210857, 211057)
Annotations:['A']
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Size:200
Segment: (211097, 211297)
Annotations: ['A']
Skipping 232
Size:200
Segment: (211353, 211553)
Annotations: ['A']
Skipping 232
Size:200
Segment: (211620, 211820)
Annotations:['A']
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Size:200
Segment: (211918, 212118)
Annotations:['A']
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Size:200
Segment: (212186, 212386)
Annotations: ['A']
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Size:200
Segment: (212456, 212656)
Annotations:['A']
Skipping 232
Size:200
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Segment: (212728, 212928)
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Segment: (213001, 213201)
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Size:200
Segment: (213268, 213468)
Annotations:['A']
Skipping 232
Size:200
Segment: (214248, 214448)
Annotations:['A']
Skipping 232
Size:200
Segment: (214492, 214692)
Annotations: ['A']
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Size:200
Segment: (214760, 214960)
Annotations:['A']
Skipping 232
Size:200
Segment: (215068, 215268)
Annotations:['A']
Skipping 232
Size:200
Segment: (215964, 216164)
Annotations:['A']
Skipping 232
Size:200
Segment: (216271, 216471)
Annotations:['A']
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Size:200
Segment: (216511, 216711)
Annotations:['A']
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Skipping 232 Size:200 Segment: (217352, 217552) Annotations:['A'] Skipping 232 Size:200 Segment: (217625, 217825) Annotations:['A'] Skipping 232 Size:200 Segment: (217868, 218068) Annotations:['A'] Skipping 232 Size:200 Segment: (218166, 218366) Annotations:['A'] Skipping 232 Size:200 Segment: (218966, 219166) Annotations:['A'] Skipping 232 Size:200 Segment: (219216, 219416) Annotations:['A'] Skipping 232 Size:200 Segment: (219514, 219714) Annotations:['A'] Skipping 232 Size:200 Segment: (219786, 219986) Annotations:['A'] Skipping 232 Size:200 Segment: (220723, 220923) Annotations:['A'] Skipping 232 Size:200 Segment: (220999, 221199)

Annotations:['A']
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Skipping 232 Size:200
Segment: (221271, 221471)
Annotations:['A']
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Skipping 232
Size:200
Segment: (222088, 222288)
Annotations:['A']
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Skipping 232
Size:200
Segment: (222334, 222534)
Annotations:['A']
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Skipping 232
Size:200
Segment: (222632, 222832)
Annotations: ['A']
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Skipping 232
Size:200
Segment: (222905, 223105) Annotations: ['A']
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Skipping 232
Size:200
Segment: (223175, 223375)
Annotations:['A']
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Skipping 232
Size:200
Segment: (223425, 223625)
Annotations:['A']
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Skipping 232
Size:200
Segment: (224463, 224663)
Annotations:['A']
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Skipping 232
Size:200
Segment: (224743, 224943)
Annotations:['A']
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Size:200 Segment: (225652, 225852) Annotations:['A'] Skipping 232 Size:200 Segment: (225947, 226147) Annotations: ['A'] Skipping 232 Size:200 Segment: (226880, 227080) Annotations: ['A'] Skipping 232 Size:200 Segment: (227141, 227341) Annotations:['A'] Skipping 232 Size:200 Segment: (228076, 228276) Annotations:['A'] Skipping 232 Size:200 Segment: (228336, 228536) Annotations:['A'] Skipping 232 Size:200 Segment: (228598, 228798) Annotations:['A'] Skipping 232 Size:200 Segment: (228869, 229069) Annotations: ['A'] Skipping 232 Size:200 Segment: (230714, 230914) Annotations:['A'] Skipping 232 Size:200 Segment: (231017, 231217) Annotations:['A']

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Size:200
Segment: (231289, 231489)
Annotations:['A']
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Segment: (231527, 231727)
Annotations: ['A']
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Size:200
Segment: (231825, 232025)
Annotations:['A']
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Size:200
Segment: (232099, 232299)
Annotations:['A']
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Size:200
Segment: (232371, 232571)
Annotations: ['A']
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Size:200
Segment: (234225, 234425)
Annotations:['A']
Skipping 232
Size:200
Segment: (234497, 234697)
Annotations:['A']
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Size:200
Segment: (235431, 235631)
Annotations: ['A']
Skipping 232
Size:200
Segment: (235707, 235907)
Annotations:['A']
Skipping 232
Size:200
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Segment: (235950, 236150)
Annotations:['A']
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Size:200
Segment: (236214, 236414)
Annotations: ['A']
Skipping 232
Size:200
Segment: (237109, 237309)
Annotations:['A']
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Size:200
Segment: (237417, 237617)
Annotations:['A']
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Size:200
Segment: (237654, 237854)
Annotations: ['A']
Skipping 232
Size:200
Segment: (238468, 238668)
Annotations: ['A']
Skipping 232
Size:200
Segment: (238716, 238916)
Annotations:['A']
Skipping 232
Size:200
Segment: (239013, 239213)
Annotations:['A']
Skipping 232
Size:200
Segment: (239283, 239483)
Annotations:['A']
Skipping 232
Size:200
Segment: (240189, 240389)
Annotations:['A']
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Skipping 232 Size:200 Segment: (240466, 240666) Annotations:['A'] Skipping 232 Size:200 Segment: (240732, 240932) Annotations:['A'] Skipping 232 Size:200 Segment: (240993, 241193) Annotations:['A'] Skipping 232 Size:200 Segment: (241893, 242093) Annotations:['A'] Skipping 232 Size:200 Segment: (242170, 242370) Annotations:['A'] Skipping 232 Size:200 Segment: (242440, 242640) Annotations:['A'] Skipping 232 Size:200 Segment: (242710, 242910) Annotations:['A'] Skipping 232 Size:200 Segment: (242975, 243175) Annotations:['A'] Skipping 232 Size:200 Segment: (243248, 243448) Annotations:['A'] Skipping 232 Size:200

Segment: (243524, 243724)

Annotations:['A']
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Segment: (244422, 244622)
Annotations:['A']
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Skipping 232
Size:200
Segment: (244722, 244922)
Annotations:['A']
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Size:200
Segment: (244967, 245167)
Annotations:['A']
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Skipping 232
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Segment: (245255, 245455)
Annotations:['A']
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Skipping 232
Size:200
Segment: (245512, 245712)
Annotations:['A']
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Skipping 232
Size:200
Segment: (245746, 245946)
Annotations:['A']
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Skipping 232
Size:200
Segment: (245999, 246199)
Annotations:['A']
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Skipping 232
Size:200
Segment: (246298, 246498)
Annotations:['A']
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Skipping 232
Size:200
Segment: (246556, 246756) Annotations: ['A']
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Skipping 232

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Segment: (246838, 247038)
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Size:200
Segment: (247096, 247296)
Annotations: ['A']
Skipping 232
Size:200
Segment: (247333, 247533)
Annotations: ['A']
Skipping 232
Size:200
Segment: (247542, 247742)
Annotations:['A']
Skipping 232
Size:200
Segment: (247860, 248060)
Annotations:['A']
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Size:200
Segment: (248117, 248317)
Annotations: ['A']
Skipping 232
Size:200
Segment: (248378, 248578)
Annotations:['A']
Skipping 232
Size:200
Segment: (248643, 248843)
Annotations: ['A']
Skipping 232
Size:200
Segment: (248894, 249094)
Annotations:['~', 'A']
Skipping 232
Size:200
Segment: (249149, 249349)
Annotations:['A']
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Skipping 232
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Segment: (249411, 249611)
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Size:200
Segment: (249674, 249874)
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Size:200
Segment: (249958, 250158)
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Size:200
Segment: (250250, 250450)
Annotations: ['A']
Skipping 232
Size:200
Segment: (250508, 250708)
Annotations: ['A']
Skipping 232
Size:200
Segment: (250771, 250971)
Annotations:['A']
Skipping 232
Size:200
Segment: (251041, 251241)
Annotations:['A']
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Size:200
Segment: (251302, 251502)
Annotations: ['A']
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Size:200
Segment: (251541, 251741)
Annotations:['A']
Skipping 232
Size:200
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Segment: (251816, 252016)
Annotations:['A']
Skipping 232
Size:200
Segment: (252112, 252312)
Annotations:['A']
Skipping 232
Size:200
Segment: (252378, 252578)
Annotations:['A', '~']
Skipping 232
Size:200
Segment: (252620, 252820)
Annotations:['A']
Skipping 232
Size:200
Segment: (252896, 253096)
Annotations: ['A']
Skipping 232
Size:200
Segment: (253195, 253395)
Annotations:['A']
Skipping 232
Size:200
Segment: (253468, 253668)
Annotations:['A']
Skipping 232
Size:200
Segment: (253733, 253933)
Annotations:['A']
Skipping 232
Size:200
Segment: (254545, 254745)
Annotations:['A']
Skipping 232
Size:200
Segment: (255361, 255561)
Annotations:['A']
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Annotations:['A']
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Segment: (258926, 259126)
Annotations:['A']
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Size:200
Segment:(259179, 259379)
Annotations:['A']
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Skipping 232 Size:200
Segment: (259482, 259682)
Annotations:['A']
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Skipping 232
Size:200
Segment: (259726, 259926)
Annotations:['A']
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Skipping 232
Size:200
Segment: (259995, 260195)
Annotations: ['A']
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Skipping 232 Size:200
Size:200 Segment:(260287, 260487)
Annotations:['A']
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Skipping 232
Size:200
Segment: (260562, 260762)
Annotations:['A']
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Skipping 232
Size:200
Segment: (261428, 261628)
Annotations:['A']
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Skipping 232
Size:200
Segment: (261690, 261890)
Annotations:['A']
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Skipping 232

Size:200 Segment: (262617, 262817) Annotations:['A'] Skipping 232 Size:200 Segment: (262883, 263083) Annotations: ['A'] Skipping 232 Size:200 Segment: (263116, 263316) Annotations:['A'] Skipping 232 Size:200 Segment: (264040, 264240) Annotations:['A'] Skipping 232 Size:200 Segment: (264308, 264508) Annotations:['A'] Skipping 232 Size:200 Segment: (264549, 264749) Annotations:['A'] Skipping 232 Size:200 Segment: (264842, 265042) Annotations:['A'] Skipping 232 Size:200 Segment: (265078, 265278) Annotations: ['A'] Skipping 232 Size:200 Segment: (265343, 265543) Annotations:['A'] Skipping 232 Size:200 Segment: (266241, 266441) Annotations:['A']

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Skipping 232
Size:200
Segment: (266534, 266734)
Annotations:['A']
Skipping 232
Size:200
Segment: (267412, 267612)
Annotations: ['A']
Skipping 232
Size:200
Segment: (268292, 268492)
Annotations:['A']
Skipping 232
Size:200
Segment: (268563, 268763)
Annotations:['A']
Skipping 232
Size:200
Segment: (269462, 269662)
Annotations: ['A']
Skipping 232
Size:200
Segment: (269726, 269926)
Annotations:['A']
Skipping 232
Size:200
Segment: (270644, 270844)
Annotations:['A']
Skipping 232
Size:200
Segment: (270911, 271111)
Annotations: ['A']
Skipping 232
Size:200
Segment: (271169, 271369)
Annotations:['A']
Skipping 232
Size:200
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Size:200
Segment: (272380, 272580)
Annotations:['A']
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Size:200
Segment: (272616, 272816)
Annotations:['A']
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Size:200
Segment: (272901, 273101)
Annotations:['A']
Skipping 232
Size:200
Segment: (273163, 273363)
Annotations: ['A']
Skipping 232
Size:200
Segment: (273421, 273621)
Annotations:['A']
Skipping 232
Size:200
Segment: (273688, 273888)
Annotations:['A']
Skipping 232
Size:200
Segment: (273959, 274159)
Annotations:['A']
Skipping 232
Size:200
Segment: (274224, 274424)
Annotations:['A']
Skipping 232
Size:200
Segment: (275130, 275330)
Annotations:['A']
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Skipping 232 Size:200 Segment: (275426, 275626) Annotations:['A'] Skipping 232 Size:200 Segment: (276335, 276535) Annotations:['A'] Skipping 232 Size:200 Segment: (276601, 276801) Annotations:['A'] Skipping 232 Size:200 Segment: (276868, 277068) Annotations:['A'] Skipping 232 Size:200 Segment: (277885, 278085) Annotations:['A'] Skipping 232 Size:200 Segment: (278155, 278355) Annotations:['A'] Skipping 232 Size:200 Segment: (279017, 279217) Annotations:['A'] Skipping 232 Size:200 Segment: (279310, 279510) Annotations:['A'] Skipping 232 Size:200 Segment: (280219, 280419) Annotations:['A'] Skipping 232 Size:200

Segment: (280492, 280692)

Annotations:['A']
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Skipping 232 Size:200
Segment: (281415, 281615)
Annotations:['A']
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Size:200
Segment: (281660, 281860)
Annotations:['A']
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Skipping 232 Size:200
Segment: (281952, 282152)
Annotations:['A']
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Skipping 232
Size:200
Segment: (282881, 283081)
Annotations:['A']
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Skipping 232
Size:200
Segment: (283125, 283325)
Annotations: ['A']
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Skipping 232 Size:200
Size:200 Segment:(284025, 284225)
Annotations:['A']
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Skipping 232
Size:200
Segment: (284311, 284511)
Annotations:['A']
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Skipping 232
Size:200
Segment:(285210, 285410)
Annotations:['A']
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Skipping 232
Size:200
Segment: (285507, 285707)
Annotations:['A']
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Size:200
Segment: (286422, 286622)
Annotations:['A']
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Size:200
Segment: (286687, 286887)
Annotations: ['A']
Skipping 232
Size:200
Segment: (286916, 287116)
Annotations:['A']
Skipping 232
Size:200
Segment: (287197, 287397)
Annotations:['A']
Skipping 232
Size:200
Segment: (287457, 287657)
Annotations:['A']
Skipping 232
Size:200
Segment: (287727, 287927)
Annotations: ['A']
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Size:200
Segment: (288001, 288201)
Annotations:['A']
Skipping 232
Size:200
Segment: (288266, 288466)
Annotations: ['A']
Skipping 232
Size:200
Segment: (288526, 288726)
Annotations:['A']
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Size:200
Segment: (288795, 288995)
Annotations:['A']
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Skipping 232
Size:200
Segment: (289035, 289235)
Annotations:['A']
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Segment: (289330, 289530)
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Size:200
Segment: (289597, 289797)
Annotations:['A']
Skipping 232
Size:200
Segment: (289870, 290070)
Annotations:['A']
Skipping 232
Size:200
Segment: (290813, 291013)
Annotations: ['A']
Skipping 232
Size:200
Segment: (291086, 291286)
Annotations:['A']
Skipping 232
Size:200
Segment: (291353, 291553)
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Size:200
Segment: (291617, 291817)
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Size:200
Segment: (292540, 292740)
Annotations:['A']
Skipping 232
Size:200
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Segment: (292813, 293013)
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Segment: (293788, 293988)
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Size:200
Segment: (294039, 294239)
Annotations:['A']
Skipping 232
Size:200
Segment: (295035, 295235)
Annotations:['A']
Skipping 232
Size:200
Segment: (295302, 295502)
Annotations: ['A']
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Size:200
Segment: (296211, 296411)
Annotations:['A']
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Size:200
Segment: (296479, 296679)
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Size:200
Segment: (297415, 297615)
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Segment: (297714, 297914)
Annotations:['A']
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Segment: (297967, 298167)
Annotations:['A']
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Annotations:['A']
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Segment: (304283, 304483)
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Annotations:['A']
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Segment: (305508, 305708)
Annotations:['A']
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Segment: (305740, 305940)
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Segment: (306002, 306202)
Annotations:['A']
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Skipping 232
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Segment: (306936, 307136)
Annotations:['A']
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Skipping 232
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Segment: (307207, 307407) Annotations: ['A']
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Skipping 232 Size:200
Segment: (307470, 307670)
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Size:200
Segment: (307738, 307938)
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Skipping 232

Size:200 Segment: (307998, 308198) Annotations:['A'] Skipping 232 Size:200 Segment: (308233, 308433) Annotations: ['A'] Skipping 232 Size:200 Segment: (308503, 308703) Annotations:['A'] Skipping 232 Size:200 Segment: (309273, 309473) Annotations:['A'] Skipping 232 Size:200 Segment: (309512, 309712) Annotations:['A'] Skipping 232 Size:200 Segment: (310441, 310641) Annotations:['A'] Skipping 232 Size:200 Segment: (311387, 311587) Annotations:['A'] Skipping 232 Size:200 Segment: (311652, 311852) Annotations: ['A'] Skipping 232 Size:200 Segment: (312601, 312801) Annotations:['A'] Skipping 232 Size:200 Segment: (312861, 313061) Annotations:['A']

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Segment: (313632, 313832)
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Size:200
Segment: (313914, 314114)
Annotations:['A']
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Size:200
Segment: (316281, 316481)
Annotations: ['A']
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Size:200
Segment: (316464, 316664)
Annotations:['A']
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Size:200
Segment: (316765, 316965)
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Size:200
Segment: (317045, 317245)
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Size:200
Segment: (317304, 317504)
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Size:200
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Segment: (320400, 320600)
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Segment: (320667, 320867)
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Segment: (320924, 321124)
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Segment: (321164, 321364)
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Size:200
Segment: (321460, 321660)
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Segment: (321725, 321925)
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Segment: (321988, 322188)
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Segment: (326828, 327028)

Annotations:['A']
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Segment: (327754, 327954)
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Segment:(328050, 328250)
Annotations:['A']
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Segment: (328319, 328519)
Annotations:['A']
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Segment: (330051, 330251)
Annotations:['A']
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Segment: (330317, 330517)
Annotations:['A']
Skipping 232 Size:200
Segment:(330582, 330782)
Annotations:['A']
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Segment: (330847, 331047)
Annotations:['A']
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Segment:(331083, 331283)
Annotations:['A']
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Segment: (331374, 331574)
Annotations:['A']
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Skipping 232

Size:200 Segment: (332302, 332502) Annotations:['A'] Skipping 232 Size:200 Segment: (332543, 332743) Annotations: ['A'] Skipping 232 Size:200 Segment: (333478, 333678) Annotations:['A'] Skipping 232 Size:200 Segment: (333774, 333974) Annotations:['A'] Skipping 232 Size:200 Segment: (334016, 334216) Annotations:['A'] Skipping 232 Size:200 Segment: (334303, 334503) Annotations:['A'] Skipping 232 Size:200 Segment: (334567, 334767) Annotations:['A'] Skipping 232 Size:200 Segment: (335460, 335660) Annotations: ['A'] Skipping 232 Size:200 Segment: (335762, 335962) Annotations:['A'] Skipping 232 Size:200 Segment: (336022, 336222) Annotations:['A']

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Segment: (336259, 336459)
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Segment: (336556, 336756)
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Size:200
Segment: (336824, 337024)
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Segment: (337654, 337854)
Annotations: ['A']
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Segment: (337920, 338120)
Annotations: ['A']
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Segment: (338162, 338362)
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Segment: (339826, 340026)
Annotations:['A']
Skipping 232
Size:200
Segment: (340090, 340290)
Annotations: ['A']
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Size:200
Segment: (341030, 341230)
Annotations:['A']
Skipping 232
Size:200
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Size:200
Segment: (341844, 342044)
Annotations:['A']
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Size:200
Segment: (342109, 342309)
Annotations:['A']
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Size:200
Segment: (342373, 342573)
Annotations: ['A']
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Size:200
Segment: (342613, 342813)
Annotations:['A']
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Size:200
Segment: (342909, 343109)
Annotations:['A']
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Size:200
Segment: (345128, 345328)
Annotations:['A']
Skipping 232
Size:200
Segment: (345396, 345596)
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Skipping 232
Size:200
Segment: (345658, 345858)
Annotations:['A']
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Skipping 232 Size:200 Segment: (345924, 346124) Annotations:['A'] Skipping 232 Size:200 Segment: (346189, 346389) Annotations:['A'] Skipping 232 Size:200 Segment: (346460, 346660) Annotations:['A'] Skipping 232 Size:200 Segment: (346705, 346905) Annotations:['A'] Skipping 232 Size:200 Segment: (348548, 348748) Annotations:['A'] Skipping 232 Size:200 Segment: (348809, 349009) Annotations:['A'] Skipping 232 Size:200 Segment: (349765, 349965) Annotations:['A'] Skipping 232 Size:200 Segment: (350037, 350237) Annotations:['A'] Skipping 232 Size:200 Segment: (350303, 350503) Annotations:['A'] Skipping 232 Size:200 Segment: (350571, 350771)

Annotations:['A']
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Segment: (350842, 351042)
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Segment: (351117, 351317)
Annotations:['A']
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Skipping 232
Size:200
Segment: (351391, 351591)
Annotations:['A']
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Skipping 232
Size:200
Segment: (351654, 351854)
Annotations:['A']
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Skipping 232
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Segment: (354620, 354820)
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Annotations:['A']  ++++++++++++++++++++++++++++++++++

Size:200 Segment: (355938, 356138) Annotations:['A'] Skipping 232 Size:200 Segment: (356209, 356409) Annotations: ['A'] Skipping 232 Size:200 Segment: (356447, 356647) Annotations: ['A'] Skipping 232 Size:200 Segment: (356744, 356944) Annotations:['A'] Skipping 232 Size:200 Segment: (357004, 357204) Annotations:['A'] Skipping 232 Size:200 Segment: (358878, 359078) Annotations: ['A'] Skipping 232 Size:200 Segment: (359153, 359353) Annotations:['A'] Skipping 232 Size:200 Segment: (360019, 360219) Annotations: ['A'] Skipping 232 Size:200 Segment: (360284, 360484) Annotations:['A'] Skipping 232 Size:200 Segment: (360552, 360752) Annotations:['A']

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Segment: (361338, 361538)
Annotations:['A']
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Size:200
Segment: (362222, 362422)
Annotations: ['A']
Skipping 232
Size:200
Segment: (362491, 362691)
Annotations: ['A']
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Size:200
Segment: (362791, 362991)
Annotations:['A']
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Size:200
Segment: (363056, 363256)
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Size:200
Segment: (364589, 364789)
Annotations: ['A']
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Size:200
Segment: (364860, 365060)
Annotations:['A']
Skipping 232
Size:200
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Segment: (365096, 365296)
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Segment: (365387, 365587)
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Segment: (365896, 366096)
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Segment: (367628, 367828)
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Size:200
Segment: (367897, 368097)
Annotations:['A']
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Size:200
Segment: (368166, 368366)
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Size:200
Segment: (368430, 368630)
Annotations:['A']
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Segment: (368701, 368901)
Annotations:['A']
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Size:200
Segment: (368974, 369174)
Annotations:['A']
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Skipping 232 Size:200 Segment: (369237, 369437) Annotations:['A'] Skipping 232 Size:200 Segment: (371790, 371990) Annotations:['A'] Skipping 232 Size:200 Segment: (372066, 372266) Annotations:['A'] Skipping 232 Size:200 Segment: (372326, 372526) Annotations:['A'] Skipping 232 Size:200 Segment: (372590, 372790) Annotations:['A'] Skipping 232 Size:200 Segment: (372853, 373053) Annotations:['A'] Skipping 232 Size:200 Segment: (373121, 373321) Annotations:['A'] Skipping 232 Size:200 Segment: (373906, 374106) Annotations:['A'] Skipping 232 Size:200 Segment: (374140, 374340) Annotations:['A'] Skipping 232 Size:200

Segment: (375046, 375246)

Annotations:['A']
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Segment: (375344, 375544)
Annotations:['A']
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Annotations:['A']
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Segment: (376546, 376746)
Annotations:['A']
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Size:200
Segment: (376815, 377015)
Annotations:['A']
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Segment: (377083, 377283)
Annotations:['A']
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Skipping 232
Size:200
Segment:(377347, 377547) Annotations:['A']
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Skipping 232
Size:200
Segment: (377611, 377811)
Annotations:['A']
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Segment:(377878, 378078)
Annotations:['A']
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Skipping 232
Size:200
Segment:(378146, 378346)
Annotations:['A']
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Skipping 232

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Size:200
Segment: (385692, 385892)
Annotations:['A']
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Segment: (385940, 386140)
Annotations: ['A']
Skipping 232
Size:200
Segment: (386233, 386433)
Annotations: ['A']
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Segment: (386498, 386698)
Annotations:['A']
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Size:200
Segment: (386763, 386963)
Annotations:['A']
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Size:200
Segment: (387021, 387221)
Annotations: ['A']
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Segment: (387286, 387486)
Annotations:['A']
Skipping 232
Size:200
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Segment: (389286, 389486)
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Size:200
Segment: (389585, 389785)
Annotations:['A']
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Annotations: ['A']
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Segment: (390798, 390998)
Annotations:['A']
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Size:200
Segment: (391708, 391908)
Annotations:['A']
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Size:200
Segment: (392005, 392205)
Annotations:['A']
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Size:200
Segment: (392277, 392477)
Annotations:['A']
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Size:200
Segment: (392542, 392742)
Annotations:['A']
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Annotations:['A']
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Annotations:['A']
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Segment: (400019, 400219)
Annotations:['A']
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Segment: (400290, 400490)
Annotations:['A']
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Size:200
Segment: (400561, 400761)
Annotations:['A']
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Skipping 232
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Segment: (400827, 401027)
Annotations:['A']
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Segment: (403311, 403511) Annotations: ['A']
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Skipping 232
Size:200
Segment: (403580, 403780)
Annotations:['A']
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Segment: (403842, 404042)
Annotations:['A']
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Skipping 232
Size:200
Segment: (404105, 404305)
Annotations:['A']
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Skipping 232

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Segment: (409405, 409605)
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Segment: (409663, 409863)
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Size:200
Segment: (409926, 410126)
Annotations:['A']
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Size:200
Segment: (410185, 410385)
Annotations: ['A']
Skipping 232
Size:200
Segment: (410454, 410654)
Annotations: ['A']
Skipping 232
Size:200
Segment: (410707, 410907)
Annotations:['A']
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Size:200
Segment: (410942, 411142)
Annotations:['A']
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Size:200
Segment: (411241, 411441)
Annotations: ['A']
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Size:200
Segment: (411503, 411703)
Annotations:['A']
Skipping 232
Size:200
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Segment: (411771, 411971)
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Segment: (413988, 414188)
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Size:200
Segment: (414229, 414429)
Annotations:['A']
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Size:200
Segment: (414523, 414723)
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Size:200
Segment: (414793, 414993)
Annotations:['A']
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Size:200
Segment: (415056, 415256)
Annotations:['A']
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Size:200
Segment: (415319, 415519)
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Size:200
Segment: (418195, 418395)
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Size:200
Segment: (418463, 418663)
Annotations:['A']
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Segment: (422592, 422792)

Annotations:['A']
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Annotations:['A']
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Annotations:['A']
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Skipping 232 Size:200
Segment: (423364, 423564)
Annotations:['A']
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Segment: (423664, 423864)
Annotations:['A']
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Size:200
Segment: (423942, 424142)
Annotations:['A']
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Skipping 232
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Segment: (424216, 424416)
Segment: (424216, 424416) Annotations: ['A']
Segment: (424216, 424416) Annotations: ['A']
Segment: (424216, 424416) Annotations: ['A'] +++++++++++++++++++++++++++++++++++

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Segment: (431328, 431528)
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Segment: (431598, 431798)
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Segment: (433557, 433757)
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Segment: (433834, 434034)
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Segment: (434095, 434295)
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Segment: (434362, 434562)
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Segment: (437562, 437762)
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Segment: (437860, 438060)
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Segment: (438132, 438332)
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Segment: (438667, 438867)
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Segment: (446428, 446628)
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Segment: (450241, 450441)
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Segment: (470315, 470515)
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Segment: (471817, 472017)
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221PF-110 202

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Skipping 232 Size:200

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Segment: (540325, 540525)
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Size:200 Segment:(540596, 540796) Annotations:['A']
Size:200 Segment:(540596, 540796) Annotations:['A'] +++++++++++++++++++++++++++++++++++

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Segment: (554424, 554624)
Annotations:['A']
Skipping 232
Size:200
Segment: (554716, 554916)
Annotations:['A']
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Skipping 232 Size:200 Segment: (554990, 555190) Annotations:['A'] Skipping 232 Size:200 Segment: (556729, 556929) Annotations:['A'] Skipping 232 Size:200 Segment: (557004, 557204) Annotations:['A'] Skipping 232 Size:200 Segment: (557240, 557440) Annotations:['A'] Skipping 232 Size:200 Segment: (557533, 557733) Annotations:['A'] Skipping 232 Size:200 Segment: (557805, 558005) Annotations:['A'] Skipping 232 Size:200 Segment: (558080, 558280) Annotations:['A'] Skipping 232 Size:200 Segment: (558350, 558550) Annotations:['A'] Skipping 232 Size:200 Segment: (558594, 558794) Annotations:['A'] Skipping 232 Size:200

Segment: (558882, 559082)

Annotations:['A']
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Skipping 232 Size:200
Segment: (559151, 559351)
Annotations:['A']
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Size:200
Segment: (559422, 559622)
Annotations:['A']
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Skipping 232 Size:200
Segment: (559701, 559901)
Annotations:['A']
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Skipping 232
Size:200
Segment: (561499, 561699)
Annotations:['A']
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Skipping 232
Size:200
Segment: (561772, 561972)
Annotations:['A']
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Skipping 232
Size:200
Segment: (562044, 562244)  Annotations: ['A']
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Skipping 232
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Segment: (562309, 562509)
Annotations:['A']
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Skipping 232
Size:200
Segment: (562580, 562780)
Annotations:['A']
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Size:200
Segment: (562831, 563031)
Annotations:['A']
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Skipping 232

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Segment: (563124, 563324)
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Size:200
Segment: (563397, 563597)
Annotations: ['A']
Skipping 232
Size:200
Segment: (563669, 563869)
Annotations:['A']
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Size:200
Segment: (563944, 564144)
Annotations:['A']
Skipping 232
Size:200
Segment: (564211, 564411)
Annotations:['A']
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Size:200
Segment: (565664, 565864)
Annotations: ['A']
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Size:200
Segment: (565944, 566144)
Annotations:['A']
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Size:200
Segment: (566217, 566417)
Annotations: ['A']
Skipping 232
Size:200
Segment: (566492, 566692)
Annotations:['A']
Skipping 232
Size:200
Segment: (566733, 566933)
Annotations:['A']
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Segment: (567027, 567227)
Annotations:['A']
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Segment: (567301, 567501)
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Size:200
Segment: (567581, 567781)
Annotations:['A']
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Size:200
Segment: (567859, 568059)
Annotations: ['A']
Skipping 232
Size:200
Segment: (568137, 568337)
Annotations: ['A']
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Size:200
Segment: (568416, 568616)
Annotations:['A']
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Size:200
Segment: (568689, 568889)
Annotations:['A']
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Size:200
Segment: (568975, 569175)
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Size:200
Segment: (570645, 570845)
Annotations:['A']
Skipping 232
Size:200
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Segment: (570949, 571149)
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Segment: (571198, 571398)
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Segment: (571499, 571699)
Annotations:['A']
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Size:200
Segment: (571741, 571941)
Annotations:['A']
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Size:200
Segment: (572050, 572250)
Annotations: ['A']
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Size:200
Segment: (574179, 574379)
Annotations:['A']
Skipping 232
Size:200
Segment: (574451, 574651)
Annotations:['A']
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Size:200
Segment: (574723, 574923)
Annotations:['A']
Skipping 232
Size:200
Segment: (574996, 575196)
Annotations:['A']
Skipping 232
Size:200
Segment: (575266, 575466)
Annotations:['A']
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Skipping 232 Size:200 Segment: (575544, 575744) Annotations:['A'] Skipping 232 Size:200 Segment: (575789, 575989) Annotations:['A'] Skipping 232 Size:200 Segment: (576085, 576285) Annotations:['A'] Skipping 232 Size:200 Segment: (576357, 576557) Annotations:['A'] Skipping 232 Size:200 Segment: (578169, 578369) Annotations:['A'] Skipping 232 Size:200 Segment: (578450, 578650) Annotations:['A'] Skipping 232 Size:200 Segment: (578728, 578928) Annotations:['A'] Skipping 232 Size:200 Segment: (579000, 579200) Annotations:['A'] Skipping 232 Size:200 Segment: (579270, 579470) Annotations:['A'] Skipping 232 Size:200

Segment: (579545, 579745)

Annotations:['A']
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Segment: (579817, 580017)
Annotations:['A']
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Segment: (580088, 580288)
Annotations:['A']
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Segment: (580367, 580567)
Annotations:['A']
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Skipping 232
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Segment: (580653, 580853)
Annotations:['A']
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Skipping 232
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Segment: (580917, 581117)
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Annotations:['A']
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Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++

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Segment: (583883, 584083)
Annotations: ['A']
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Segment: (586256, 586456)
Annotations: ['A']
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Size:200
Segment: (586502, 586702)
Annotations:['A']
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Size:200
Segment: (586765, 586965)
Annotations:['A']
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Size:200
Segment: (587054, 587254)
Annotations: ['A']
Skipping 232
Size:200
Segment: (587315, 587515)
Annotations:['A']
Skipping 232
Size:200
Segment: (587575, 587775)
Annotations: ['A']
Skipping 232
Size:200
Segment: (589130, 589330)
Annotations:['A']
Skipping 232
Size:200
Segment: (589404, 589604)
Annotations:['A']
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Skipping 232
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Segment: (589679, 589879)
Annotations:['A']
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Size:200
Segment: (589947, 590147)
Annotations: ['A']
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Size:200
Segment: (590212, 590412)
Annotations:['A']
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Size:200
Segment: (590490, 590690)
Annotations: ['A']
Skipping 232
Size:200
Segment: (590753, 590953)
Annotations: ['A']
Skipping 232
Size:200
Segment: (591004, 591204)
Annotations:['A']
Skipping 232
Size:200
Segment: (591312, 591512)
Annotations:['A']
Skipping 232
Size:200
Segment: (591555, 591755)
Annotations: ['A']
Skipping 232
Size:200
Segment: (593266, 593466)
Annotations:['A']
Skipping 232
Size:200
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Segment: (593510, 593710)
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Segment: (593806, 594006)
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Segment: (594047, 594247)
Annotations:['A']
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Size:200
Segment: (594357, 594557)
Annotations:['A']
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Size:200
Segment: (594620, 594820)
Annotations: ['A']
Skipping 232
Size:200
Segment: (594892, 595092)
Annotations:['A']
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Size:200
Segment: (595157, 595357)
Annotations:['A']
Skipping 232
Size:200
Segment: (595398, 595598)
Annotations:['A']
Skipping 232
Size:200
Segment: (595697, 595897)
Annotations:['A']
Skipping 232
Size:200
Segment: (595974, 596174)
Annotations:['A']
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Skipping 232 Size:200 Segment: (598862, 599062) Annotations:['A'] Skipping 232 Size:200 Segment: (599158, 599358) Annotations:['A'] Skipping 232 Size:200 Segment: (599402, 599602) Annotations:['A'] Skipping 232 Size:200 Segment: (599697, 599897) Annotations:['A'] Skipping 232 Size:200 Segment: (599960, 600160) Annotations:['A'] Skipping 232 Size:200 Segment: (600223, 600423) Annotations:['A'] Skipping 232 Size:200 Segment: (600488, 600688) Annotations:['A'] Skipping 232 Size:200 Segment: (600769, 600969) Annotations:['A'] Skipping 232 Size:200 Segment: (601031, 601231) Annotations:['A'] Skipping 232 Size:200

Segment: (601292, 601492)

Annotations:['A']
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Segment:(601558, 601758)
Annotations:['A']
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Segment:(601830, 602030)
Annotations:['A']
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Skipping 232 Size:200
Segment: (602095, 602295)
Annotations:['A']
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Skipping 232
Size:200
Segment:(603713, 603913)
Annotations:['A']
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Skipping 232
Size:200
Segment: (603957, 604157)
Annotations:['A']
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Skipping 232
Size:200
Segment:(604252, 604452) Annotations:['A']
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Skipping 232
Size:200
Segment:(604509, 604709)
Annotations:['A']
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Skipping 232
Size:200
Segment: (604773, 604973)
Annotations:['A']
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Skipping 232
Size:200
Segment:(605018, 605218)
Annotations:['A']
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Size:200 Segment: (607325, 607525) Annotations:['A'] Skipping 232 Size:200 Segment: (607585, 607785) Annotations: ['A'] Skipping 232 Size:200 Segment: (607877, 608077) Annotations: ['A'] Skipping 232 Size:200 Segment: (608135, 608335) Annotations:['A'] Skipping 232 Size:200 Segment: (608393, 608593) Annotations:['A'] Skipping 232 Size:200 Segment: (608659, 608859) Annotations: ['A'] Skipping 232 Size:200 Segment: (608923, 609123) Annotations:['A'] Skipping 232 Size:200 Segment: (609182, 609382) Annotations: ['A'] Skipping 232 Size:200 Segment: (609448, 609648) Annotations:['A'] Skipping 232 Size:200 Segment: (609711, 609911) Annotations:['A']

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Segment: (609977, 610177)
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Segment: (610863, 611063)
Annotations: ['A']
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Size:200
Segment: (611142, 611342)
Annotations:['A']
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Size:200
Segment: (611422, 611622)
Annotations: ['A']
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Size:200
Segment: (611690, 611890)
Annotations: ['A']
Skipping 232
Size:200
Segment: (613977, 614177)
Annotations:['A']
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Size:200
Segment: (614275, 614475)
Annotations:['A']
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Size:200
Segment: (614563, 614763)
Annotations: ['A']
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Size:200
Segment: (619794, 619994)
Annotations:['A']
Skipping 232
Size:200
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Segment: (620076, 620276)
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Segment: (620328, 620528)
Annotations:['A']
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Size:200
Segment: (620550, 620750)
Annotations: ['A']
Skipping 232
Size:200
Segment: (620834, 621034)
Annotations:['A']
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Size:200
Segment: (621084, 621284)
Annotations: ['A']
Skipping 232
Size:200
Segment: (621353, 621553)
Annotations: ['A']
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Size:200
Segment: (621611, 621811)
Annotations:['A']
Skipping 232
Size:200
Segment: (621837, 622037)
Annotations:['A']
Skipping 232
Size:200
Segment: (622097, 622297)
Annotations:['A']
Skipping 232
Size:200
Segment: (622381, 622581)
Annotations:['A']
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Skipping 232 Size:200 Segment: (622624, 622824) Annotations:['A'] Skipping 232 Size:200 Segment: (622917, 623117) Annotations:['A'] Skipping 232 Size:200 Segment: (623154, 623354) Annotations:['A'] Skipping 232 Size:200 Segment: (624542, 624742) Annotations:['A'] Skipping 232 Size:200 Segment: (624814, 625014) Annotations:['A'] Skipping 232 Size:200 Segment: (625099, 625299) Annotations:['A'] Skipping 232 Size:200 Segment: (625328, 625528) Annotations:['A'] Skipping 232 Size:200 Segment: (625620, 625820) Annotations: ['A'] Skipping 232 Size:200 Segment: (625894, 626094) Annotations:['A'] Skipping 232 Size:200

Segment: (626159, 626359)

Annotations:['A']
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Segment: (626425, 626625)
Annotations:['A']
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Segment: (626689, 626889)
Annotations:['A']
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Skipping 232 Size:200
Segment: (626958, 627158)
Annotations:['A']
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Skipping 232
Size:200
Segment: (627216, 627416)
Annotations:['A']
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Skipping 232
Size:200
Segment: (627481, 627681)
Annotations:['A']
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Skipping 232
Skipping 232 Size:200
Skipping 232 Size:200 Segment:(627725, 627925)
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A']
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A']
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++
Skipping 232 Size:200 Segment:(627725, 627925) Annotations:['A'] +++++++++++++++++++++++++++++++++++

Size:200 Segment: (630929, 631129) Annotations:['A'] Skipping 232 Size:200 Segment: (631162, 631362) Annotations: ['A'] Skipping 232 Size:200 Segment: (631420, 631620) Annotations:['A'] Skipping 232 Size:200 Segment: (631704, 631904) Annotations:['A'] Skipping 232 Size:200 Segment: (631938, 632138) Annotations:['A'] Skipping 232 Size:200 Segment: (632237, 632437) Annotations: ['A'] Skipping 232 Size:200 Segment: (632482, 632682) Annotations:['A'] Skipping 232 Size:200 Segment: (632776, 632976) Annotations: ['A'] Skipping 232 Size:200 Segment: (635256, 635456) Annotations:['A'] Skipping 232 Size:200 Segment: (635524, 635724) Annotations:['A']

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Segment: (635791, 635991)
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Size:200
Segment: (636313, 636513)
Annotations:['A']
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Size:200
Segment: (636556, 636756)
Annotations: ['A']
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Size:200
Segment: (636855, 637055)
Annotations: ['A']
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Segment: (637121, 637321)
Annotations:['A']
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Size:200
Segment: (637393, 637593)
Annotations:['A']
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Size:200
Segment: (637670, 637870)
Annotations: ['A']
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Size:200
Segment: (637930, 638130)
Annotations:['A']
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Size:200
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Segment: (639914, 640114)
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Segment: (640456, 640656)
Annotations:['A']
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Segment: (640721, 640921)
Annotations: ['A']
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Size:200
Segment: (640962, 641162)
Annotations: ['A']
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Segment: (641255, 641455)
Annotations:['A']
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Size:200
Segment: (641529, 641729)
Annotations:['A']
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Size:200
Segment: (641809, 642009)
Annotations:['A']
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Segment: (642081, 642281)
Annotations:['A']
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Annotations:['A']
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Skipping 232
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Segment: (647349, 647549)
Annotations:['A']
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Segment: (647620, 647820)
Annotations:['A']
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Skipping 232
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Segment: (647895, 648095)
Annotations:['A']
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Segment: (648174, 648374)
Annotations:['A']
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Skipping 232
Size:200
Segment: (649035, 649235)
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Annotations:['A']  ++++++++++++++++++++++++++++++++++
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Annotations:['A'] +++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++
Annotations:['A']  ++++++++++++++++++++++++++++++++++

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Size:200
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Skipping 233
Size:200
Segment: (46928, 47128)
Annotations: ['A']
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Size:200
Segment: (60668, 60868)
Annotations:['F']
Skipping 233
Size:200
Segment: (75751, 75951)
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Size:200
Segment: (80675, 80875)
Annotations:['F']
Skipping 233
Size:200
Segment: (81311, 81511)
Annotations:['F']
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Size:200
Segment: (92399, 92599)
Annotations:['F']
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Size:200
Segment: (101969, 102169)
Annotations:['F']
Skipping 233
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Segment: (153696, 153896)
Annotations:[]
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Size:200
Segment: (161509, 161709)
Annotations:['F']
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Skipping 233
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Segment: (162574, 162774)
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Segment: (184487, 184687)
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Size:200
Segment: (211910, 212110)
Annotations:[]
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Size:200
Segment: (229330, 229530)
Annotations:['F']
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Size:200
Segment: (309543, 309743)
Annotations:['F', '+']
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Segment: (340969, 341169)
Annotations:['F']
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Size:200
Segment: (354840, 355040)
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Size:200
Segment: (371474, 371674)
Annotations: ['A']
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Size:200
Segment: (388600, 388800)
Annotations:[]
Skipping 233
Size:200
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Segment: (391202, 391402)
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Size:200
Segment: (397198, 397398)
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Size:200
Segment: (596305, 596505)
Annotations:['F']
Skipping 233
Size:200
Segment: (615513, 615713)
Annotations: ['A']
Skipping 233
Size:137
Segment: (649863, 650000)
Annotations:['N']
Skipping 234
Size:200
Segment: (304465, 304665)
Annotations:['J']
Skipping 234
Size:200
Segment: (304613, 304813)
Annotations:['J']
Skipping 234
Size:200
Segment: (304806, 305006)
Annotations:['J']
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Segment: (304979, 305179)
Annotations:['J']
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Skipping 234
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Skipping 234
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Size: 200
Segment: (305538, 305738)
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Skipping 234 Size: 200
Segment: (305749, 305949)
Annotations:['J']
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Skipping 234 Size:200
Segment: (305995, 306195) Annotations: ['J']
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Skipping 234 Size:200
Segment: (306183, 306383) Annotations: ['J']
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Skipping 234
Size: 200
Segment: (306412, 306612)
Annotations:['J']
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Skipping 234
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Segment: (306667, 306867)
Annotations:['J']
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Size: 200
Segment: (306842, 307042)
Annotations:['J']
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Skipping 234
Size:200
Segment: (307034, 307234)

Annotations:['J']
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Skipping 234
Size:200
Segment: (307255, 307455)
Annotations:['J']
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Skipping 234
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Segment: (307489, 307689)
Annotations:['J']
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Skipping 234
Size:200
Segment: (307731, 307931)
Annotations:['J']
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Skipping 234
Size:200
Segment: (307969, 308169)
Annotations:['J']
**************************************
Skipping 234 Size:200
Segment (308202 308402)
Segment: (308202, 308402) Annotations: ['.J']
Annotations:['J']
Annotations:['J']
Annotations:['J']
Annotations:['J'] +++++++++++++++++++++++++++++++++++
Annotations:['J']  ++++++++++++++++++++++++++++++++++
Annotations:['J'] +++++++++++++++++++++++++++++++++++
Annotations:['J'] +++++++++++++++++++++++++++++++++++
Annotations:['J']  ++++++++++++++++++++++++++++++++++

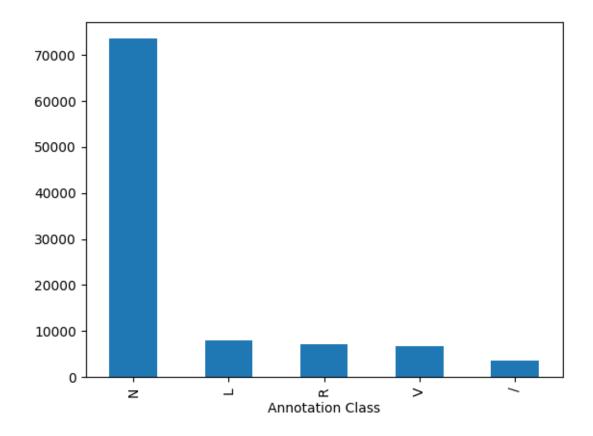
Size:200 Segment: (309208, 309408) Annotations:['J'] Skipping 234 Size:200 Segment: (309413, 309613) Annotations:['J'] Skipping 234 Size:200 Segment: (309611, 309811) Annotations:['J'] Skipping 234 Size:200 Segment: (309800, 310000) Annotations:['J'] Skipping 234 Size:200 Segment: (310001, 310201) Annotations:['J'] Skipping 234 Size:200 Segment: (310137, 310337) Annotations:['J'] Skipping 234 Size:200 Segment: (310287, 310487) Annotations:['J'] Skipping 234 Size:200 Segment: (310442, 310642) Annotations:['J'] Skipping 234 Size:200 Segment: (310625, 310825) Annotations:['J'] Skipping 234 Size:200 Segment: (310794, 310994) Annotations:['J']

```
Skipping 234
Size:200
Segment: (310975, 311175)
Annotations:['J']
Skipping 234
Size:200
Segment: (311105, 311305)
Annotations:['J']
Skipping 234
Size:200
Segment: (311270, 311470)
Annotations:['J']
Skipping 234
Size:200
Segment: (311460, 311660)
Annotations:['J']
Skipping 234
Size:200
Segment: (311596, 311796)
Annotations:['J']
Skipping 234
Size:200
Segment: (311749, 311949)
Annotations:['J']
Skipping 234
Size:200
Segment: (311900, 312100)
Annotations:['J']
Skipping 234
Size:200
Segment: (312087, 312287)
Annotations:['J']
Skipping 234
Size:200
Segment: (312244, 312444)
Annotations:['J']
Skipping 234
Size:200
```

```
Segment: (312398, 312598)
   Annotations:['J']
   Skipping 234
   Size:200
   Segment: (312521, 312721)
   Annotations:['J']
   Skipping 234
   Size:200
   Segment: (312702, 312902)
   Annotations:['J']
   Skipping 234
   Size:200
   Segment: (312844, 313044)
   Annotations:['J']
   Skipping 234
   Size:200
   Segment: (312993, 313193)
   Annotations:['J']
   Skipping 234
   Size:200
   Segment: (313143, 313343)
   Annotations:['J']
   Skipping 234
   Size:200
   Segment: (313285, 313485)
   Annotations:['J']
   Skipping 234
   Size:200
   Segment: (313433, 313633)
   Annotations:['J']
   [79]: readings = np.array(readings)
[80]: readings.shape
[80]: (99174, 200)
   ecg_data = pd.DataFrame(readings, columns=range(0, 200))
```

```
ecg_data["Record ID"] = np.array(record_ids)
      ecg_data["Segment Start"] = np.array(segment_starts)
      ecg_data["Segment End"] = np.array(segment_ends)
      ecg_data["Annotation Class"] = np.array(annotation_class)
[83]:
      ecg_data.head()
[83]:
                                    2
                                              3
                                                        4
                                                                  5
                                                                             6
                                                                               \
                          1
      0 0.059449
                   0.055308
                             0.052035
                                       0.049666
                                                 0.047961
                                                           0.046922
                                                                     0.046801
      1 0.084239
                   0.087566
                             0.088956
                                       0.088621
                                                 0.086919
                                                           0.084459
                                                                     0.081823
      2 -0.006937 -0.005690 -0.005184 -0.005172 -0.005405 -0.005802 -0.006385
                             0.073026
                                                 0.069731
      3 0.072086
                   0.073128
                                       0.071802
                                                           0.067336
                                                                     0.065156
      4 0.084762
                   0.083995
                                       0.080127 0.077701
                                                           0.075216
                             0.082327
                                                                     0.072963
                7
                                    9
                                               194
                                                         195
                                                                    196
                                                                              197 \
      0 0.047770
                                       ... 0.033981
                  0.049465
                             0.051072
                                                   0.034276
                                                              0.034166
                                                                        0.033702
      1 0.079506
                   0.077958
                             0.077429
                                       ... 0.020272
                                                   0.020719
                                                              0.020971
                                                                        0.020866
      2 -0.007163 -0.008008 -0.008625
                                       ... -0.084841 -0.084325 -0.082953 -0.080644
      3 0.063624
                   0.062977
                             0.063282
                                       ... 0.040177
                                                    0.039328
                                                              0.038051
                                                                        0.036671
      4 0.071264 0.070261
                             0.069845
                                      ... 0.027249 0.029211
                                                              0.031715
                                                                        0.034364
              198
                             Record ID Segment Start Segment End Annotation Class
                        199
        0.033134
                  0.032648
                                   100
                                                   13
                                                               213
                                                                                    N
                                                               507
      1 0.020622
                   0.020434
                                   100
                                                  307
                                                                                    N
      2 -0.077424 -0.073181
                                                               763
                                                                                    N
                                   100
                                                  563
      3 0.035565
                   0.034817
                                   100
                                                                                    N
                                                  883
                                                               1083
      4 0.036462 0.037443
                                   100
                                                 1168
                                                               1368
                                                                                    N
      [5 rows x 204 columns]
[84]: for i, column_to_move in enumerate(["Record ID", "Segment Start", "Segment_
       column = ecg_data.pop(column_to_move)
          ecg_data.insert(i, column_to_move, column)
[85]:
      ecg_data.head()
       Record ID
                   Segment Start
                                  Segment End
[85]:
                                                      0
                                                                1
      0
              100
                              13
                                          213
                                               0.059449 0.055308
                                                                   0.052035
      1
              100
                             307
                                          507
                                               0.084239
                                                         0.087566
                                                                   0.088956
      2
              100
                             563
                                          763 -0.006937 -0.005690 -0.005184
      3
              100
                             883
                                         1083
                                               0.072086 0.073128
                                                                   0.073026
                                         1368 0.084762 0.083995
      4
              100
                            1168
                                                                   0.082327
                3
                                    5
                                              6
                          4
                                                         191
                                                                    192
                                                                              193
         0.049666
                   0.047961
                             0.046922
                                       0.046801
                                                ... 0.029812
                                                              0.031902
                                                                        0.033233
                   0.086919
                                       0.081823
         0.088621
                             0.084459
                                                 ... 0.020380
                                                              0.020170
                                                                        0.020049
```

```
2 -0.005172 -0.005405 -0.005802 -0.006385 ... -0.083923 -0.084476 -0.084798
      3 \quad 0.071802 \quad 0.069731 \quad 0.067336 \quad 0.065156 \quad \dots \quad 0.040917 \quad 0.040820 \quad 0.040605
      4 0.080127 0.077701 0.075216 0.072963 ... 0.024691 0.025225 0.025977
              194
                         195
                                   196
                                              197
                                                        198
                                                                   199 \
      0 0.033981 0.034276 0.034166 0.033702 0.033134 0.032648
      1 0.020272 0.020719 0.020971 0.020866 0.020622 0.020434
      2 \ -0.084841 \ -0.084325 \ -0.082953 \ -0.080644 \ -0.077424 \ -0.073181
      3 0.040177 0.039328 0.038051 0.036671 0.035565 0.034817
      4 0.027249 0.029211 0.031715 0.034364 0.036462 0.037443
         Annotation Class
      0
      1
                         N
      2
                         N
      3
                         N
      4
                         N
      [5 rows x 204 columns]
[86]: ecg_data["Annotation Class"].value_counts()
[86]: Annotation Class
      N
           73439
      L
            8068
            7255
      R
      V
            6793
            3619
      Name: count, dtype: int64
[87]: ecg_data["Annotation Class"].value_counts().plot(kind="bar")
[87]: <Axes: xlabel='Annotation Class'>
```



```
[88]: ecg_data.to_csv("processed_data/ecg_processed_data.csv")
[89]: df.to_csv("processed_data/annotation_count.csv")
[90]: patient_data_frame.to_csv("processed_data/patient_summary_info.csv")
[]:
[]:
[]:
```