

prediction_ENCPHiladelphia

August 31, 2025

```
[3]: # Using this python code, you can give a list of cities in an excel file & a
      ↪ list of destinations (defined in the code)
      ## and the code will call carbontracer and give you back another excel file
      ↪ with co2 emissions for flight & train travel
      ## between the cities. The first half of the code defines functions and imports
      ↪ packages that will be used

      ##### Import packages & define functions

      import pandas as pd
      import matplotlib.pyplot as plt
      import time
      from pycarbontracer import CarbonTracer

      ## Rotates the API keys so that the max. number of calls per hour is not
      ↪ exceeded for any of them individually
      def get_api_key():
          global api_call_count, current_key_index
          if api_call_count >= 1900: # Rotate the key after 1900 calls
              current_key_index = (current_key_index + 1) % len(API_KEYS)
              api_call_count = 0
          api_call_count += 1
          return API_KEYS[current_key_index]

[4]: ## Function to get CO2 data with caching; The main function that gets the data
      ↪ from Carbontracer
      def get_co2_data(transport_mode, origin, destination):
          global ct, co2_cache
          ct = CarbonTracer(get_api_key())

          # Generate a unique key for caching; This part is to mainly check if some
          ↪ combination of origin-destination has
          # already been checked. This avoids calling the API for the same combination
          ↪ multiple times and speeds up the analysis
          cache_key = f"{transport_mode}_{origin}_{destination}"
          print(cache_key)
```

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if cache_key in co2_cache:
    print("Using cached data")
    return co2_cache[cache_key] # Return cached result if available

    ## In the part below, we get the data from carbontracer; It check if the
    ↳ response was a success or else it spits
    ## out an error. It's common to see this error. It might happen if there
    ↳ are no train connection possible
    ## or if there are no flight connections as well as if the cities are not
    ↳ identified
    retries = 1
    while retries > 0:
        try:
            result = ct.routing(transport_mode, origin, destination)
            time.sleep(0.5) # Respect API rate limit
            if result['response']['success']:
                data = result['response']['data']
                co2_data = {
                    'co2eq': data['aCO2eq']['economy'] if transport_mode ==
    ↳ "flight" else data['co2eq'],
                    'distance_direct': data['distanceDirect'],
                    'distance_route': data['distanceRoute']
                }
                co2_cache[cache_key] = co2_data # Cache the result
                return co2_data
            except Exception as e:
                print(f"Error for {transport_mode} from {origin} to {destination}:
    ↳ {e}")
                retries -= 1
                print(f"Failed after retries for {transport_mode} from {origin} to
    ↳ {destination}")
            return None

```

[5]: ##### The main part of the code where you can make changes based on your
 ↳ file and requirements #####

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## API keys for CarbonTracer; I have used the three API keys I have.
## There are limitations to how fast and how many times the API can be called
API_KEYS = ["nPfnGW8Mv9NZT2jzpWpAfXSBHDYKfWk8xWhVhQbe",
    ↳ "IYZjnzSd2W3K5SLhvDiZpvDQrnqL4WNM1IZ47tF1",
    ↳ "cKkgSHBk3QBKDuJFvrA9kj4wk5tcL2PcweHQBH55L"] # Replace with your actual API
    ↳ keys
current_key_index = 0
api_call_count = 0

# Initialize CarbonTracer

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ct = CarbonTracer(get_api_key())

# Cache to store results; It basically stores all the information that we get
↳from Carbontracer
co2_cache = {}

# Read Excel file
## This is the input file, it assumes the file is in the same folder from where
↳you are running the python code
## So you will need to enter the full address in case it is in another folder
input_file = "Participants_ENC_Asilomar.xlsx"

df = pd.read_excel(input_file)
df.columns = df.columns.str.strip() # Clean column names
print("File read") ## To keep track of the code and errors

# Fixed destinations; Here you can give a list of destinations for which you
↳want to analyse your file
destinations = ["Philadelphia"]

# Prepare columns for results to be saved in the new excel file
for destination in destinations:
    for col in ['co2eq', 'distance_direct', 'distance_route']:
        for mode in ['flight', 'train']:
            df[f"{mode}_{col}_{destination}"] = None

```

File read

[6]: df

```

[6]:
      Name                                     Affiliation \
0  Mustapha Abdulmojeed          North Carolina State University
1  Abubakar Abdurraheem                Wayne State University
2  Nandita Abhyankar      University of Maryland, College Park
3  Ralph Adams                University of Manchester
4  Umit Akbey  Structural Biology, University of Pittsburgh
..  ...
386 Emma Latchem      University of California, Santa Barbara
387 Paul Krolikowski                Amgen, Inc.
388 Dorothee Kern      HHMI/Scripps Research Institute
389 Yaewon Kim      University of California, San Francisco
390 Karim Karouta                UC Berkeley / LBNL

      City      Airport Country transportation Unnamed: 6 \
0  Raleigh      Raleigh      USA      NaN      NaN
1  Detroit      Detroit      USA      NaN      NaN
2  Detroit      Detroit      USA      NaN      NaN

```

3	Manchester	Manchester	UK	NaN	NaN
4	Pittsburgh	Pittsburgh	USA	NaN	NaN
..
386	Santa Barbara	NaN	USA	car	NaN
387	San Francisco	San Francisco	USA	car	NaN
388	San Diego	NaN	USA	car	NaN
389	San Francisco	San Francisco	USA	car	NaN
390	San Francisco	San Francisco	USA	car	NaN

	flight_co2eq_Philadelphia	train_co2eq_Philadelphia	\
0	None	None	
1	None	None	
2	None	None	
3	None	None	
4	None	None	
..	
386	None	None	
387	None	None	
388	None	None	
389	None	None	
390	None	None	

	flight_distance_direct_Philadelphia	train_distance_direct_Philadelphia	\
0	None	None	
1	None	None	
2	None	None	
3	None	None	
4	None	None	
..	
386	None	None	
387	None	None	
388	None	None	
389	None	None	
390	None	None	

	flight_distance_route_Philadelphia	train_distance_route_Philadelphia
0	None	None
1	None	None
2	None	None
3	None	None
4	None	None
..
386	None	None
387	None	None
388	None	None
389	None	None
390	None	None

[391 rows x 13 columns]

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[7]: # Process each destination; Heart of the code which iterates over the file and
      ↪ calls the functions
for destination in destinations:
    for i, row in df.iterrows():

        origin = row.get('Airport')
        print(origin)

        #origin = row['Airport'] ### IMPORTANT: Enter the column name for the
        ↪ list of cities; case-sensitive
        print(f"\nChecking from {origin} to {destination}")
        flight_data = get_co2_data("flight", origin, destination)
        train_data = get_co2_data("train", origin, destination)

        if flight_data:
            print(f"Success: flight from {origin} to {destination}")
            df.at[i, f'flight_co2eq_{destination}'] = flight_data['co2eq']
            df.at[i, f'flight_distance_direct_{destination}'] =
            ↪ flight_data['distance_direct']
            df.at[i, f'flight_distance_route_{destination}'] =
            ↪ flight_data['distance_route']
            if train_data:
                print(f"Success: train from {origin} to {destination}")
                df.at[i, f'train_co2eq_{destination}'] = train_data['co2eq']
                df.at[i, f'train_distance_direct_{destination}'] =
                ↪ train_data['distance_direct']
                df.at[i, f'train_distance_route_{destination}'] =
                ↪ train_data['distance_route']

# Calculate total CO2 emissions grouped by year for each destination
for destination in destinations:
    # Fill NaN with 0 for both flight and train
    df[f'flight_co2eq_{destination}'] = df[f'flight_co2eq_{destination}'].
    ↪ fillna(0)
    df[f'train_co2eq_{destination}'] = df[f'train_co2eq_{destination}'].
    ↪ fillna(0)

    # Set total_co2eq: train if non-zero, otherwise flight
    df[f'total_co2eq_{destination}'] = df[f'train_co2eq_{destination}'].where(
        df[f'train_co2eq_{destination}'] != 0,
        df[f'flight_co2eq_{destination}']
    )
# co2_by_year = df.groupby('year')[f'total_co2eq_{destination}'].sum()
```

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# # Plot CO2 emissions by year
# plt.figure()
# co2_by_year.plot(kind='bar', title=f"Total CO2 Emissions for {destination} by Year")
# plt.ylabel("Total CO2 (kg)")
# plt.xlabel("Year")
# plt.tight_layout()
# plt.show()

# Save updated DataFrame
output_file = "Philadelphia.xlsx" ## Output file name; it will overwrite if you use an existing filename
df.to_excel(output_file, index=False)
print(f"Updated data saved to {output_file}")

```

Raleigh

Checking from Raleigh to Philadelphia

flight_Raleigh_Philadelphia

train_Raleigh_Philadelphia

Failed after retries for train from Raleigh to Philadelphia

Success: flight from Raleigh to Philadelphia

Detroit

Checking from Detroit to Philadelphia

flight_Detroit_Philadelphia

train_Detroit_Philadelphia

Failed after retries for train from Detroit to Philadelphia

Success: flight from Detroit to Philadelphia

Detroit

Checking from Detroit to Philadelphia

flight_Detroit_Philadelphia

Using cached data

train_Detroit_Philadelphia

Failed after retries for train from Detroit to Philadelphia

Success: flight from Detroit to Philadelphia

Manchester

Checking from Manchester to Philadelphia

flight_Manchester_Philadelphia

train_Manchester_Philadelphia

Failed after retries for train from Manchester to Philadelphia

Success: flight from Manchester to Philadelphia

Pittsburgh

Checking from Pittsburgh to Philadelphia
flight_Pittsburgh_Philadelphia
train_Pittsburgh_Philadelphia
Failed after retries for train from Pittsburgh to Philadelphia
Success: flight from Pittsburgh to Philadelphia
Karlsruhe

Checking from Karlsruhe to Philadelphia
flight_Karlsruhe_Philadelphia
train_Karlsruhe_Philadelphia
Failed after retries for train from Karlsruhe to Philadelphia
Success: flight from Karlsruhe to Philadelphia
Sao Paulo

Checking from Sao Paulo to Philadelphia
flight_Sao Paulo_Philadelphia
train_Sao Paulo_Philadelphia
Failed after retries for train from Sao Paulo to Philadelphia
Success: flight from Sao Paulo to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
New Brunswick

Checking from New Brunswick to Philadelphia
flight_New Brunswick_Philadelphia
Failed after retries for flight from New Brunswick to Philadelphia
train_New Brunswick_Philadelphia
Failed after retries for train from New Brunswick to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia

Success: flight from London to Philadelphia
Newark

Checking from Newark to Philadelphia
flight_Newark_Philadelphia
train_Newark_Philadelphia
Failed after retries for train from Newark to Philadelphia
Success: flight from Newark to Philadelphia
Philadelphia

Checking from Philadelphia to Philadelphia
flight_Philadelphia_Philadelphia
Failed after retries for flight from Philadelphia to Philadelphia
train_Philadelphia_Philadelphia
Failed after retries for train from Philadelphia to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Milan

Checking from Milan to Philadelphia
flight_Milan_Philadelphia
train_Milan_Philadelphia
Failed after retries for train from Milan to Philadelphia
Success: flight from Milan to Philadelphia
Dallas

Checking from Dallas to Philadelphia
flight_Dallas_Philadelphia
train_Dallas_Philadelphia
Failed after retries for train from Dallas to Philadelphia
Success: flight from Dallas to Philadelphia
Atlanta

Checking from Atlanta to Philadelphia
flight_Atlanta_Philadelphia
train_Atlanta_Philadelphia
Failed after retries for train from Atlanta to Philadelphia
Success: flight from Atlanta to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia

train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Paris

Checking from Paris to Philadelphia
flight_Paris_Philadelphia
train_Paris_Philadelphia
Failed after retries for train from Paris to Philadelphia
Success: flight from Paris to Philadelphia
New Delhi

Checking from New Delhi to Philadelphia
flight_New Delhi_Philadelphia
train_New Delhi_Philadelphia
Failed after retries for train from New Delhi to Philadelphia
Success: flight from New Delhi to Philadelphia
Pittsburgh

Checking from Pittsburgh to Philadelphia
flight_Pittsburgh_Philadelphia
Using cached data
train_Pittsburgh_Philadelphia
Failed after retries for train from Pittsburgh to Philadelphia
Success: flight from Pittsburgh to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Corvallis (Oregon)

Checking from Corvallis (Oregon) to Philadelphia
flight_Corvallis (Oregon)_Philadelphia
train_Corvallis (Oregon)_Philadelphia
Failed after retries for train from Corvallis (Oregon) to Philadelphia
Success: flight from Corvallis (Oregon) to Philadelphia
Lyon

Checking from Lyon to Philadelphia
flight_Lyon_Philadelphia
train_Lyon_Philadelphia
Failed after retries for train from Lyon to Philadelphia
Success: flight from Lyon to Philadelphia
Dresden

Checking from Dresden to Philadelphia
flight_Dresden_Philadelphia
train_Dresden_Philadelphia
Failed after retries for train from Dresden to Philadelphia
Success: flight from Dresden to Philadelphia
Sydney

Checking from Sydney to Philadelphia
flight_Sydney_Philadelphia
train_Sydney_Philadelphia
Failed after retries for train from Sydney to Philadelphia
Success: flight from Sydney to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Seattle

Checking from Seattle to Philadelphia
flight_Seattle_Philadelphia
train_Seattle_Philadelphia
Failed after retries for train from Seattle to Philadelphia
Success: flight from Seattle to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia

Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Manchester

Checking from Manchester to Philadelphia
flight_Manchester_Philadelphia
Using cached data
train_Manchester_Philadelphia
Failed after retries for train from Manchester to Philadelphia
Success: flight from Manchester to Philadelphia
Durham

Checking from Durham to Philadelphia
flight_Durham_Philadelphia
train_Durham_Philadelphia
Failed after retries for train from Durham to Philadelphia
Success: flight from Durham to Philadelphia
Brussels

Checking from Brussels to Philadelphia
flight_Brussels_Philadelphia
train_Brussels_Philadelphia
Failed after retries for train from Brussels to Philadelphia
Success: flight from Brussels to Philadelphia
Dresden

Checking from Dresden to Philadelphia
flight_Dresden_Philadelphia
Using cached data
train_Dresden_Philadelphia
Failed after retries for train from Dresden to Philadelphia
Success: flight from Dresden to Philadelphia
Ottawa

Checking from Ottawa to Philadelphia
flight_Ottawa_Philadelphia
train_Ottawa_Philadelphia
Failed after retries for train from Ottawa to Philadelphia
Success: flight from Ottawa to Philadelphia
Munich

Checking from Munich to Philadelphia
flight_Munich_Philadelphia
train_Munich_Philadelphia
Failed after retries for train from Munich to Philadelphia
Success: flight from Munich to Philadelphia
Columbus

Checking from Columbus to Philadelphia
flight_Columbus_Philadelphia
train_Columbus_Philadelphia
Failed after retries for train from Columbus to Philadelphia
Success: flight from Columbus to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Reykjavik

Checking from Reykjavik to Philadelphia
flight_Reykjavik_Philadelphia
train_Reykjavik_Philadelphia
Failed after retries for train from Reykjavik to Philadelphia
Success: flight from Reykjavik to Philadelphia
Detroit

Checking from Detroit to Philadelphia
flight_Detroit_Philadelphia
Using cached data
train_Detroit_Philadelphia
Failed after retries for train from Detroit to Philadelphia
Success: flight from Detroit to Philadelphia
Minneapolis

Checking from Minneapolis to Philadelphia
flight_Minneapolis_Philadelphia
train_Minneapolis_Philadelphia
Failed after retries for train from Minneapolis to Philadelphia
Success: flight from Minneapolis to Philadelphia
Rio de Janeiro

Checking from Rio de Janeiro to Philadelphia
flight_Rio de Janeiro_Philadelphia
train_Rio de Janeiro_Philadelphia
Failed after retries for train from Rio de Janeiro to Philadelphia
Success: flight from Rio de Janeiro to Philadelphia
Edinburgh

Checking from Edinburgh to Philadelphia
flight_Edinburgh_Philadelphia
train_Edinburgh_Philadelphia
Failed after retries for train from Edinburgh to Philadelphia

Success: flight from Edinburgh to Philadelphia
Cincinnati

Checking from Cincinnati to Philadelphia
flight_Cincinnati_Philadelphia
train_Cincinnati_Philadelphia
Failed after retries for train from Cincinnati to Philadelphia
Success: flight from Cincinnati to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Orlando

Checking from Orlando to Philadelphia
flight_Orlando_Philadelphia
train_Orlando_Philadelphia
Failed after retries for train from Orlando to Philadelphia
Success: flight from Orlando to Philadelphia
Albuquerque

Checking from Albuquerque to Philadelphia
flight_Albuquerque_Philadelphia
train_Albuquerque_Philadelphia
Failed after retries for train from Albuquerque to Philadelphia
Success: flight from Albuquerque to Philadelphia
Zurich

Checking from Zurich to Philadelphia
flight_Zurich_Philadelphia
train_Zurich_Philadelphia
Failed after retries for train from Zurich to Philadelphia
Success: flight from Zurich to Philadelphia
Bozeman

Checking from Bozeman to Philadelphia
flight_Bozeman_Philadelphia
train_Bozeman_Philadelphia
Failed after retries for train from Bozeman to Philadelphia
Success: flight from Bozeman to Philadelphia
Toronto

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flight_Toronto_Philadelphia

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Hartford

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Geneva

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Detroit

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Amsterdam

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Washington

Checking from Washington to Philadelphia

flight_Washington_Philadelphia

Using cached data

train_Washington_Philadelphia

Failed after retries for train from Washington to Philadelphia

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Washington

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New Orleans

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Orlando

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Paris

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Geneva

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Frankfurt

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New Brunswick

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Failed after retries for flight from New Brunswick to Philadelphia
train_New Brunswick_Philadelphia
Failed after retries for train from New Brunswick to Philadelphia
Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia
St. Louis

Checking from St. Louis to Philadelphia
flight_St. Louis_Philadelphia
train_St. Louis_Philadelphia
Failed after retries for train from St. Louis to Philadelphia
Success: flight from St. Louis to Philadelphia
Paris

Checking from Paris to Philadelphia
flight_Paris_Philadelphia
Using cached data
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Failed after retries for train from Paris to Philadelphia
Success: flight from Paris to Philadelphia
Paris

Checking from Paris to Philadelphia
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Using cached data
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Success: flight from Paris to Philadelphia
Baltimore

Checking from Baltimore to Philadelphia
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Success: flight from Baltimore to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia

Success: flight from Tel Aviv to Philadelphia
Orlando

Checking from Orlando to Philadelphia
flight_Orlando_Philadelphia
Using cached data
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Chicago

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Hartford

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Frankfurt

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Tel Aviv

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Failed after retries for train from Tel Aviv to Philadelphia
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Orlando

Checking from Orlando to Philadelphia
flight_Orlando_Philadelphia
Using cached data
train_Orlando_Philadelphia
Failed after retries for train from Orlando to Philadelphia

Success: flight from Orlando to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data
train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Columbus

Checking from Columbus to Philadelphia
flight_Columbus_Philadelphia
Using cached data
train_Columbus_Philadelphia
Failed after retries for train from Columbus to Philadelphia
Success: flight from Columbus to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Manchester

Checking from Manchester to Philadelphia
flight_Manchester_Philadelphia
Using cached data
train_Manchester_Philadelphia
Failed after retries for train from Manchester to Philadelphia
Success: flight from Manchester to Philadelphia
Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
Using cached data
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia

Washington

Checking from Washington to Philadelphia

flight_Washington_Philadelphia

Using cached data

train_Washington_Philadelphia

Failed after retries for train from Washington to Philadelphia

Success: flight from Washington to Philadelphia

Stockholm

Checking from Stockholm to Philadelphia

flight_Stockholm_Philadelphia

train_Stockholm_Philadelphia

Failed after retries for train from Stockholm to Philadelphia

Success: flight from Stockholm to Philadelphia

Orlando

Checking from Orlando to Philadelphia

flight_Orlando_Philadelphia

Using cached data

train_Orlando_Philadelphia

Failed after retries for train from Orlando to Philadelphia

Success: flight from Orlando to Philadelphia

New York

Checking from New York to Philadelphia

flight_New York_Philadelphia

train_New York_Philadelphia

Failed after retries for train from New York to Philadelphia

Success: flight from New York to Philadelphia

Detroit

Checking from Detroit to Philadelphia

flight_Detroit_Philadelphia

Using cached data

train_Detroit_Philadelphia

Failed after retries for train from Detroit to Philadelphia

Success: flight from Detroit to Philadelphia

Denver

Checking from Denver to Philadelphia

flight_Denver_Philadelphia

train_Denver_Philadelphia

Failed after retries for train from Denver to Philadelphia

Success: flight from Denver to Philadelphia

Chicago

Checking from Chicago to Philadelphia

flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Columbus

Checking from Columbus to Philadelphia
flight_Columbus_Philadelphia
Using cached data
train_Columbus_Philadelphia
Failed after retries for train from Columbus to Philadelphia
Success: flight from Columbus to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Indianapolis

Checking from Indianapolis to Philadelphia
flight_Indianapolis_Philadelphia
train_Indianapolis_Philadelphia
Failed after retries for train from Indianapolis to Philadelphia
Success: flight from Indianapolis to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia

Using cached data

train_Chicago_Philadelphia

Failed after retries for train from Chicago to Philadelphia

Success: flight from Chicago to Philadelphia

Copenhagen

Checking from Copenhagen to Philadelphia

flight_Copenhagen_Philadelphia

train_Copenhagen_Philadelphia

Failed after retries for train from Copenhagen to Philadelphia

Success: flight from Copenhagen to Philadelphia

Frankfurt

Checking from Frankfurt to Philadelphia

flight_Frankfurt_Philadelphia

Using cached data

train_Frankfurt_Philadelphia

Failed after retries for train from Frankfurt to Philadelphia

Success: flight from Frankfurt to Philadelphia

Brussels

Checking from Brussels to Philadelphia

flight_Brussels_Philadelphia

Using cached data

train_Brussels_Philadelphia

Failed after retries for train from Brussels to Philadelphia

Success: flight from Brussels to Philadelphia

Corvallis (Oregon)

Checking from Corvallis (Oregon) to Philadelphia

flight_Corvallis (Oregon)_Philadelphia

Using cached data

train_Corvallis (Oregon)_Philadelphia

Failed after retries for train from Corvallis (Oregon) to Philadelphia

Success: flight from Corvallis (Oregon) to Philadelphia

Montevideo

Checking from Montevideo to Philadelphia

flight_Montevideo_Philadelphia

train_Montevideo_Philadelphia

Failed after retries for train from Montevideo to Philadelphia

Success: flight from Montevideo to Philadelphia

Munich

Checking from Munich to Philadelphia

flight_Munich_Philadelphia

Using cached data

train_Munich_Philadelphia

Failed after retries for train from Munich to Philadelphia
Success: flight from Munich to Philadelphia
Hartford

Checking from Hartford to Philadelphia
flight_Hartford_Philadelphia
Using cached data
train_Hartford_Philadelphia
Failed after retries for train from Hartford to Philadelphia
Success: flight from Hartford to Philadelphia
Lyon

Checking from Lyon to Philadelphia
flight_Lyon_Philadelphia
Using cached data
train_Lyon_Philadelphia
Failed after retries for train from Lyon to Philadelphia
Success: flight from Lyon to Philadelphia
Charlotte

Checking from Charlotte to Philadelphia
flight_Charlotte_Philadelphia
Using cached data
train_Charlotte_Philadelphia
Failed after retries for train from Charlotte to Philadelphia
Success: flight from Charlotte to Philadelphia
Singapore

Checking from Singapore to Philadelphia
flight_Singapore_Philadelphia
train_Singapore_Philadelphia
Failed after retries for train from Singapore to Philadelphia
Success: flight from Singapore to Philadelphia
Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
Using cached data
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia
Karachi

Checking from Karachi to Philadelphia
flight_Karachi_Philadelphia
train_Karachi_Philadelphia
Failed after retries for train from Karachi to Philadelphia
Success: flight from Karachi to Philadelphia

Taipeh

Checking from Taipeh to Philadelphia

flight_Taipeh_Philadelphia

train_Taipeh_Philadelphia

Failed after retries for train from Taipeh to Philadelphia

Success: flight from Taipeh to Philadelphia

Orlando

Checking from Orlando to Philadelphia

flight_Orlando_Philadelphia

Using cached data

train_Orlando_Philadelphia

Failed after retries for train from Orlando to Philadelphia

Success: flight from Orlando to Philadelphia

New York

Checking from New York to Philadelphia

flight_New York_Philadelphia

Using cached data

train_New York_Philadelphia

Failed after retries for train from New York to Philadelphia

Success: flight from New York to Philadelphia

Tokyo

Checking from Tokyo to Philadelphia

flight_Tokyo_Philadelphia

Using cached data

train_Tokyo_Philadelphia

Failed after retries for train from Tokyo to Philadelphia

Success: flight from Tokyo to Philadelphia

Chicago

Checking from Chicago to Philadelphia

flight_Chicago_Philadelphia

Using cached data

train_Chicago_Philadelphia

Failed after retries for train from Chicago to Philadelphia

Success: flight from Chicago to Philadelphia

London

Checking from London to Philadelphia

flight_London_Philadelphia

Using cached data

train_London_Philadelphia

Failed after retries for train from London to Philadelphia

Success: flight from London to Philadelphia

Pittsburgh

Checking from Pittsburgh to Philadelphia
flight_Pittsburgh_Philadelphia
Using cached data
train_Pittsburgh_Philadelphia
Failed after retries for train from Pittsburgh to Philadelphia
Success: flight from Pittsburgh to Philadelphia
Montreal

Checking from Montreal to Philadelphia
flight_Montreal_Philadelphia
train_Montreal_Philadelphia
Failed after retries for train from Montreal to Philadelphia
Success: flight from Montreal to Philadelphia
Dallas

Checking from Dallas to Philadelphia
flight_Dallas_Philadelphia
Using cached data
train_Dallas_Philadelphia
Failed after retries for train from Dallas to Philadelphia
Success: flight from Dallas to Philadelphia
New Delhi

Checking from New Delhi to Philadelphia
flight_New Delhi_Philadelphia
Using cached data
train_New Delhi_Philadelphia
Failed after retries for train from New Delhi to Philadelphia
Success: flight from New Delhi to Philadelphia
Indianapolis

Checking from Indianapolis to Philadelphia
flight_Indianapolis_Philadelphia
Using cached data
train_Indianapolis_Philadelphia
Failed after retries for train from Indianapolis to Philadelphia
Success: flight from Indianapolis to Philadelphia
New Delhi

Checking from New Delhi to Philadelphia
flight_New Delhi_Philadelphia
Using cached data
train_New Delhi_Philadelphia
Failed after retries for train from New Delhi to Philadelphia
Success: flight from New Delhi to Philadelphia
Dallas

Checking from Dallas to Philadelphia
flight_Dallas_Philadelphia
Using cached data
train_Dallas_Philadelphia
Failed after retries for train from Dallas to Philadelphia
Success: flight from Dallas to Philadelphia
Berlin

Checking from Berlin to Philadelphia
flight_Berlin_Philadelphia
train_Berlin_Philadelphia
Failed after retries for train from Berlin to Philadelphia
Success: flight from Berlin to Philadelphia
Lyon

Checking from Lyon to Philadelphia
flight_Lyon_Philadelphia
Using cached data
train_Lyon_Philadelphia
Failed after retries for train from Lyon to Philadelphia
Success: flight from Lyon to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Beijing

Checking from Beijing to Philadelphia
flight_Beijing_Philadelphia
train_Beijing_Philadelphia
Failed after retries for train from Beijing to Philadelphia
Success: flight from Beijing to Philadelphia
Warsaw

Checking from Warsaw to Philadelphia
flight_Warsaw_Philadelphia
train_Warsaw_Philadelphia
Failed after retries for train from Warsaw to Philadelphia
Success: flight from Warsaw to Philadelphia
Canberra

Checking from Canberra to Philadelphia
flight_Canberra_Philadelphia
train_Canberra_Philadelphia

Failed after retries for train from Canberra to Philadelphia
Success: flight from Canberra to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
Using cached data
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia
Success: flight from Tel Aviv to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Minneapolis

Checking from Minneapolis to Philadelphia
flight_Minneapolis_Philadelphia
Using cached data
train_Minneapolis_Philadelphia
Failed after retries for train from Minneapolis to Philadelphia
Success: flight from Minneapolis to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia

Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
Using cached data
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia
Zurich

Checking from Zurich to Philadelphia
flight_Zurich_Philadelphia
Using cached data
train_Zurich_Philadelphia
Failed after retries for train from Zurich to Philadelphia
Success: flight from Zurich to Philadelphia
Warsaw

Checking from Warsaw to Philadelphia
flight_Warsaw_Philadelphia
Using cached data
train_Warsaw_Philadelphia
Failed after retries for train from Warsaw to Philadelphia
Success: flight from Warsaw to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Berlin

Checking from Berlin to Philadelphia
flight_Berlin_Philadelphia
Using cached data
train_Berlin_Philadelphia
Failed after retries for train from Berlin to Philadelphia
Success: flight from Berlin to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia

Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Albuquerque

Checking from Albuquerque to Philadelphia
flight_Albuquerque_Philadelphia
Using cached data
train_Albuquerque_Philadelphia
Failed after retries for train from Albuquerque to Philadelphia
Success: flight from Albuquerque to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia
Using cached data
train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Vancouver

Checking from Vancouver to Philadelphia
flight_Vancouver_Philadelphia
train_Vancouver_Philadelphia
Failed after retries for train from Vancouver to Philadelphia
Success: flight from Vancouver to Philadelphia
Shanghai

Checking from Shanghai to Philadelphia
flight_Shanghai_Philadelphia
train_Shanghai_Philadelphia
Failed after retries for train from Shanghai to Philadelphia
Success: flight from Shanghai to Philadelphia

Lyon

Checking from Lyon to Philadelphia

flight_Lyon_Philadelphia

Using cached data

train_Lyon_Philadelphia

Failed after retries for train from Lyon to Philadelphia

Success: flight from Lyon to Philadelphia

Boston

Checking from Boston to Philadelphia

flight_Boston_Philadelphia

Using cached data

train_Boston_Philadelphia

Failed after retries for train from Boston to Philadelphia

Success: flight from Boston to Philadelphia

Frankfurt

Checking from Frankfurt to Philadelphia

flight_Frankfurt_Philadelphia

Using cached data

train_Frankfurt_Philadelphia

Failed after retries for train from Frankfurt to Philadelphia

Success: flight from Frankfurt to Philadelphia

Zurich

Checking from Zurich to Philadelphia

flight_Zurich_Philadelphia

Using cached data

train_Zurich_Philadelphia

Failed after retries for train from Zurich to Philadelphia

Success: flight from Zurich to Philadelphia

Quebec

Checking from Quebec to Philadelphia

flight_Quebec_Philadelphia

train_Quebec_Philadelphia

Failed after retries for train from Quebec to Philadelphia

Success: flight from Quebec to Philadelphia

Dallas

Checking from Dallas to Philadelphia

flight_Dallas_Philadelphia

Using cached data

train_Dallas_Philadelphia

Failed after retries for train from Dallas to Philadelphia

Success: flight from Dallas to Philadelphia

New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Birmingham

Checking from Birmingham to Philadelphia
flight_Birmingham_Philadelphia
train_Birmingham_Philadelphia
Failed after retries for train from Birmingham to Philadelphia
Success: flight from Birmingham to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
Using cached data
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia
Success: flight from Tel Aviv to Philadelphia
Paris

Checking from Paris to Philadelphia
flight_Paris_Philadelphia
Using cached data
train_Paris_Philadelphia
Failed after retries for train from Paris to Philadelphia
Success: flight from Paris to Philadelphia
Paris

Checking from Paris to Philadelphia
flight_Paris_Philadelphia
Using cached data
train_Paris_Philadelphia
Failed after retries for train from Paris to Philadelphia
Success: flight from Paris to Philadelphia
Ottawa

Checking from Ottawa to Philadelphia
flight_Ottawa_Philadelphia
Using cached data
train_Ottawa_Philadelphia
Failed after retries for train from Ottawa to Philadelphia
Success: flight from Ottawa to Philadelphia
Dallas

Checking from Dallas to Philadelphia
flight_Dallas_Philadelphia
Using cached data
train_Dallas_Philadelphia
Failed after retries for train from Dallas to Philadelphia
Success: flight from Dallas to Philadelphia
Berlin

Checking from Berlin to Philadelphia
flight_Berlin_Philadelphia
Using cached data
train_Berlin_Philadelphia
Failed after retries for train from Berlin to Philadelphia
Success: flight from Berlin to Philadelphia
Paris

Checking from Paris to Philadelphia
flight_Paris_Philadelphia
Using cached data
train_Paris_Philadelphia
Failed after retries for train from Paris to Philadelphia
Success: flight from Paris to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia
Using cached data
train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
Using cached data
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia
Success: flight from Tel Aviv to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia
Using cached data
train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia
Using cached data
train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
Murdoch

Checking from Murdoch to Philadelphia
flight_Murdoch_Philadelphia
Failed after retries for flight from Murdoch to Philadelphia
train_Murdoch_Philadelphia
Failed after retries for train from Murdoch to Philadelphia
Portland

Checking from Portland to Philadelphia
flight_Portland_Philadelphia
train_Portland_Philadelphia
Failed after retries for train from Portland to Philadelphia
Success: flight from Portland to Philadelphia
Orlando

Checking from Orlando to Philadelphia
flight_Orlando_Philadelphia
Using cached data
train_Orlando_Philadelphia
Failed after retries for train from Orlando to Philadelphia
Success: flight from Orlando to Philadelphia
Wuhan

Checking from Wuhan to Philadelphia
flight_Wuhan_Philadelphia
train_Wuhan_Philadelphia
Failed after retries for train from Wuhan to Philadelphia
Success: flight from Wuhan to Philadelphia
Canberra

Checking from Canberra to Philadelphia
flight_Canberra_Philadelphia
Using cached data
train_Canberra_Philadelphia
Failed after retries for train from Canberra to Philadelphia
Success: flight from Canberra to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data

train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
New Delhi

Checking from New Delhi to Philadelphia
flight_New Delhi_Philadelphia
Using cached data
train_New Delhi_Philadelphia
Failed after retries for train from New Delhi to Philadelphia
Success: flight from New Delhi to Philadelphia
Albuquerque

Checking from Albuquerque to Philadelphia
flight_Albuquerque_Philadelphia
Using cached data
train_Albuquerque_Philadelphia
Failed after retries for train from Albuquerque to Philadelphia
Success: flight from Albuquerque to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Corvallis (Oregon)

Checking from Corvallis (Oregon) to Philadelphia
flight_Corvallis (Oregon)_Philadelphia
Using cached data
train_Corvallis (Oregon)_Philadelphia
Failed after retries for train from Corvallis (Oregon) to Philadelphia
Success: flight from Corvallis (Oregon) to Philadelphia
Rio de Janeiro

Checking from Rio de Janeiro to Philadelphia
flight_Rio de Janeiro_Philadelphia
Using cached data

train_Rio de Janeiro_Philadelphia
Failed after retries for train from Rio de Janeiro to Philadelphia
Success: flight from Rio de Janeiro to Philadelphia
Zurich

Checking from Zurich to Philadelphia
flight_Zurich_Philadelphia
Using cached data
train_Zurich_Philadelphia
Failed after retries for train from Zurich to Philadelphia
Success: flight from Zurich to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Barcelona

Checking from Barcelona to Philadelphia
flight_Barcelona_Philadelphia
train_Barcelona_Philadelphia
Failed after retries for train from Barcelona to Philadelphia
Success: flight from Barcelona to Philadelphia
Abudhabi

Checking from Abudhabi to Philadelphia
flight_Abudhabi_Philadelphia
Failed after retries for flight from Abudhabi to Philadelphia
train_Abudhabi_Philadelphia
Failed after retries for train from Abudhabi to Philadelphia
Zurich

Checking from Zurich to Philadelphia
flight_Zurich_Philadelphia
Using cached data
train_Zurich_Philadelphia
Failed after retries for train from Zurich to Philadelphia
Success: flight from Zurich to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia

Success: flight from Tokyo to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Manchester

Checking from Manchester to Philadelphia
flight_Manchester_Philadelphia
Using cached data
train_Manchester_Philadelphia
Failed after retries for train from Manchester to Philadelphia
Success: flight from Manchester to Philadelphia
Lyon

Checking from Lyon to Philadelphia
flight_Lyon_Philadelphia
Using cached data
train_Lyon_Philadelphia
Failed after retries for train from Lyon to Philadelphia
Success: flight from Lyon to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia

Success: flight from London to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Newark

Checking from Newark to Philadelphia
flight_Newark_Philadelphia
Using cached data
train_Newark_Philadelphia
Failed after retries for train from Newark to Philadelphia
Success: flight from Newark to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Munich

Checking from Munich to Philadelphia
flight_Munich_Philadelphia
Using cached data
train_Munich_Philadelphia
Failed after retries for train from Munich to Philadelphia
Success: flight from Munich to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
Using cached data
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia

Success: flight from Tel Aviv to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Denver

Checking from Denver to Philadelphia
flight_Denver_Philadelphia
Using cached data
train_Denver_Philadelphia
Failed after retries for train from Denver to Philadelphia
Success: flight from Denver to Philadelphia
Newark

Checking from Newark to Philadelphia
flight_Newark_Philadelphia
Using cached data
train_Newark_Philadelphia
Failed after retries for train from Newark to Philadelphia
Success: flight from Newark to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Rio de Janeiro

Checking from Rio de Janeiro to Philadelphia
flight_Rio de Janeiro_Philadelphia
Using cached data
train_Rio de Janeiro_Philadelphia
Failed after retries for train from Rio de Janeiro to Philadelphia
Success: flight from Rio de Janeiro to Philadelphia
New Orleans

Checking from New Orleans to Philadelphia
flight_New Orleans_Philadelphia
Using cached data
train_New Orleans_Philadelphia
Failed after retries for train from New Orleans to Philadelphia

Success: flight from New Orleans to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Copenhagen

Checking from Copenhagen to Philadelphia
flight_Copenhagen_Philadelphia
Using cached data
train_Copenhagen_Philadelphia
Failed after retries for train from Copenhagen to Philadelphia
Success: flight from Copenhagen to Philadelphia
Nicosia

Checking from Nicosia to Philadelphia
flight_Nicosia_Philadelphia
train_Nicosia_Philadelphia
Failed after retries for train from Nicosia to Philadelphia
Success: flight from Nicosia to Philadelphia
Munich

Checking from Munich to Philadelphia
flight_Munich_Philadelphia
Using cached data
train_Munich_Philadelphia
Failed after retries for train from Munich to Philadelphia
Success: flight from Munich to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
Using cached data
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia
Success: flight from Tel Aviv to Philadelphia

Zurich

Checking from Zurich to Philadelphia

flight_Zurich_Philadelphia

Using cached data

train_Zurich_Philadelphia

Failed after retries for train from Zurich to Philadelphia

Success: flight from Zurich to Philadelphia

Detroit

Checking from Detroit to Philadelphia

flight_Detroit_Philadelphia

Using cached data

train_Detroit_Philadelphia

Failed after retries for train from Detroit to Philadelphia

Success: flight from Detroit to Philadelphia

Dallas

Checking from Dallas to Philadelphia

flight_Dallas_Philadelphia

Using cached data

train_Dallas_Philadelphia

Failed after retries for train from Dallas to Philadelphia

Success: flight from Dallas to Philadelphia

Washington

Checking from Washington to Philadelphia

flight_Washington_Philadelphia

Using cached data

train_Washington_Philadelphia

Failed after retries for train from Washington to Philadelphia

Success: flight from Washington to Philadelphia

Orlando

Checking from Orlando to Philadelphia

flight_Orlando_Philadelphia

Using cached data

train_Orlando_Philadelphia

Failed after retries for train from Orlando to Philadelphia

Success: flight from Orlando to Philadelphia

Corvallis (Oregon)

Checking from Corvallis (Oregon) to Philadelphia

flight_Corvallis (Oregon)_Philadelphia

Using cached data

train_Corvallis (Oregon)_Philadelphia

Failed after retries for train from Corvallis (Oregon) to Philadelphia

Success: flight from Corvallis (Oregon) to Philadelphia

Tel Aviv

Checking from Tel Aviv to Philadelphia

flight_Tel Aviv_Philadelphia

Using cached data

train_Tel Aviv_Philadelphia

Failed after retries for train from Tel Aviv to Philadelphia

Success: flight from Tel Aviv to Philadelphia

Zurich

Checking from Zurich to Philadelphia

flight_Zurich_Philadelphia

Using cached data

train_Zurich_Philadelphia

Failed after retries for train from Zurich to Philadelphia

Success: flight from Zurich to Philadelphia

Tucson

Checking from Tucson to Philadelphia

flight_Tucson_Philadelphia

Failed after retries for flight from Tucson to Philadelphia

train_Tucson_Philadelphia

Failed after retries for train from Tucson to Philadelphia

Boston

Checking from Boston to Philadelphia

flight_Boston_Philadelphia

Using cached data

train_Boston_Philadelphia

Failed after retries for train from Boston to Philadelphia

Success: flight from Boston to Philadelphia

London

Checking from London to Philadelphia

flight_London_Philadelphia

Using cached data

train_London_Philadelphia

Failed after retries for train from London to Philadelphia

Success: flight from London to Philadelphia

Paris

Checking from Paris to Philadelphia

flight_Paris_Philadelphia

Using cached data

train_Paris_Philadelphia

Failed after retries for train from Paris to Philadelphia

Success: flight from Paris to Philadelphia

Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
Using cached data
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia
Berlin

Checking from Berlin to Philadelphia
flight_Berlin_Philadelphia
Using cached data
train_Berlin_Philadelphia
Failed after retries for train from Berlin to Philadelphia
Success: flight from Berlin to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data
train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data
train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Des Moines

Checking from Des Moines to Philadelphia
flight_Des Moines_Philadelphia
train_Des Moines_Philadelphia
Failed after retries for train from Des Moines to Philadelphia
Success: flight from Des Moines to Philadelphia
Denver

Checking from Denver to Philadelphia
flight_Denver_Philadelphia
Using cached data
train_Denver_Philadelphia
Failed after retries for train from Denver to Philadelphia
Success: flight from Denver to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Philadelphia

Checking from Philadelphia to Philadelphia
flight_Philadelphia_Philadelphia
Failed after retries for flight from Philadelphia to Philadelphia
train_Philadelphia_Philadelphia
Failed after retries for train from Philadelphia to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data
train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Chicago

Checking from Chicago to Philadelphia

flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Hartford

Checking from Hartford to Philadelphia
flight_Hartford_Philadelphia
Using cached data
train_Hartford_Philadelphia
Failed after retries for train from Hartford to Philadelphia
Success: flight from Hartford to Philadelphia
Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
Using cached data
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia
Bombay

Checking from Bombay to Philadelphia
flight_Bombay_Philadelphia
train_Bombay_Philadelphia
Failed after retries for train from Bombay to Philadelphia
Success: flight from Bombay to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Geneva

Checking from Geneva to Philadelphia
flight_Geneva_Philadelphia
Using cached data
train_Geneva_Philadelphia
Failed after retries for train from Geneva to Philadelphia
Success: flight from Geneva to Philadelphia
Dallas

Checking from Dallas to Philadelphia
flight_Dallas_Philadelphia

Using cached data
train_Dallas_Philadelphia
Failed after retries for train from Dallas to Philadelphia
Success: flight from Dallas to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Munich

Checking from Munich to Philadelphia
flight_Munich_Philadelphia
Using cached data
train_Munich_Philadelphia
Failed after retries for train from Munich to Philadelphia
Success: flight from Munich to Philadelphia
Lyon

Checking from Lyon to Philadelphia
flight_Lyon_Philadelphia
Using cached data
train_Lyon_Philadelphia
Failed after retries for train from Lyon to Philadelphia
Success: flight from Lyon to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia

Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data
train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Des Moines

Checking from Des Moines to Philadelphia
flight_Des Moines_Philadelphia
Using cached data
train_Des Moines_Philadelphia
Failed after retries for train from Des Moines to Philadelphia
Success: flight from Des Moines to Philadelphia
Philadelphia

Checking from Philadelphia to Philadelphia
flight_Philadelphia_Philadelphia
Failed after retries for flight from Philadelphia to Philadelphia
train_Philadelphia_Philadelphia
Failed after retries for train from Philadelphia to Philadelphia
Indianapolis

Checking from Indianapolis to Philadelphia
flight_Indianapolis_Philadelphia
Using cached data
train_Indianapolis_Philadelphia
Failed after retries for train from Indianapolis to Philadelphia
Success: flight from Indianapolis to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Rome

Checking from Rome to Philadelphia
flight_Rome_Philadelphia
train_Rome_Philadelphia

Failed after retries for train from Rome to Philadelphia
Success: flight from Rome to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Brussels

Checking from Brussels to Philadelphia
flight_Brussels_Philadelphia
Using cached data
train_Brussels_Philadelphia
Failed after retries for train from Brussels to Philadelphia
Success: flight from Brussels to Philadelphia
Prague

Checking from Prague to Philadelphia
flight_Prague_Philadelphia
train_Prague_Philadelphia
Failed after retries for train from Prague to Philadelphia
Success: flight from Prague to Philadelphia
Edmonton

Checking from Edmonton to Philadelphia
flight_Edmonton_Philadelphia
train_Edmonton_Philadelphia
Failed after retries for train from Edmonton to Philadelphia
Success: flight from Edmonton to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia

Pittsburgh

Checking from Pittsburgh to Philadelphia

flight_Pittsburgh_Philadelphia

Using cached data

train_Pittsburgh_Philadelphia

Failed after retries for train from Pittsburgh to Philadelphia

Success: flight from Pittsburgh to Philadelphia

Vienna

Checking from Vienna to Philadelphia

flight_Vienna_Philadelphia

train_Vienna_Philadelphia

Failed after retries for train from Vienna to Philadelphia

Success: flight from Vienna to Philadelphia

Berlin

Checking from Berlin to Philadelphia

flight_Berlin_Philadelphia

Using cached data

train_Berlin_Philadelphia

Failed after retries for train from Berlin to Philadelphia

Success: flight from Berlin to Philadelphia

Frankfurt

Checking from Frankfurt to Philadelphia

flight_Frankfurt_Philadelphia

Using cached data

train_Frankfurt_Philadelphia

Failed after retries for train from Frankfurt to Philadelphia

Success: flight from Frankfurt to Philadelphia

Canberra

Checking from Canberra to Philadelphia

flight_Canberra_Philadelphia

Using cached data

train_Canberra_Philadelphia

Failed after retries for train from Canberra to Philadelphia

Success: flight from Canberra to Philadelphia

Berlin

Checking from Berlin to Philadelphia

flight_Berlin_Philadelphia

Using cached data

train_Berlin_Philadelphia

Failed after retries for train from Berlin to Philadelphia

Success: flight from Berlin to Philadelphia

Munich

Checking from Munich to Philadelphia
flight_Munich_Philadelphia
Using cached data
train_Munich_Philadelphia
Failed after retries for train from Munich to Philadelphia
Success: flight from Munich to Philadelphia
Orlando

Checking from Orlando to Philadelphia
flight_Orlando_Philadelphia
Using cached data
train_Orlando_Philadelphia
Failed after retries for train from Orlando to Philadelphia
Success: flight from Orlando to Philadelphia
Hartford

Checking from Hartford to Philadelphia
flight_Hartford_Philadelphia
Using cached data
train_Hartford_Philadelphia
Failed after retries for train from Hartford to Philadelphia
Success: flight from Hartford to Philadelphia
Corvallis (Oregon)

Checking from Corvallis (Oregon) to Philadelphia
flight_Corvallis (Oregon)_Philadelphia
Using cached data
train_Corvallis (Oregon)_Philadelphia
Failed after retries for train from Corvallis (Oregon) to Philadelphia
Success: flight from Corvallis (Oregon) to Philadelphia
Ottawa

Checking from Ottawa to Philadelphia
flight_Ottawa_Philadelphia
Using cached data
train_Ottawa_Philadelphia
Failed after retries for train from Ottawa to Philadelphia
Success: flight from Ottawa to Philadelphia
Orlando

Checking from Orlando to Philadelphia
flight_Orlando_Philadelphia
Using cached data
train_Orlando_Philadelphia
Failed after retries for train from Orlando to Philadelphia
Success: flight from Orlando to Philadelphia
Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
Using cached data
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
Using cached data
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia
Success: flight from Tel Aviv to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Paris

Checking from Paris to Philadelphia
flight_Paris_Philadelphia
Using cached data
train_Paris_Philadelphia
Failed after retries for train from Paris to Philadelphia
Success: flight from Paris to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Vancouver

Checking from Vancouver to Philadelphia
flight_Vancouver_Philadelphia
Using cached data
train_Vancouver_Philadelphia
Failed after retries for train from Vancouver to Philadelphia
Success: flight from Vancouver to Philadelphia
Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
Using cached data
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
Using cached data
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia
Success: flight from Tel Aviv to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data
train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Stockholm

Checking from Stockholm to Philadelphia
flight_Stockholm_Philadelphia
Using cached data
train_Stockholm_Philadelphia
Failed after retries for train from Stockholm to Philadelphia
Success: flight from Stockholm to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Berlin

Checking from Berlin to Philadelphia
flight_Berlin_Philadelphia
Using cached data
train_Berlin_Philadelphia
Failed after retries for train from Berlin to Philadelphia
Success: flight from Berlin to Philadelphia
Columbus

Checking from Columbus to Philadelphia
flight_Columbus_Philadelphia
Using cached data
train_Columbus_Philadelphia
Failed after retries for train from Columbus to Philadelphia
Success: flight from Columbus to Philadelphia
Baltimore

Checking from Baltimore to Philadelphia
flight_Baltimore_Philadelphia
Using cached data
train_Baltimore_Philadelphia
Failed after retries for train from Baltimore to Philadelphia
Success: flight from Baltimore to Philadelphia
Boston

Checking from Boston to Philadelphia
flight_Boston_Philadelphia
Using cached data
train_Boston_Philadelphia
Failed after retries for train from Boston to Philadelphia
Success: flight from Boston to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Tel Aviv

Checking from Tel Aviv to Philadelphia
flight_Tel Aviv_Philadelphia
Using cached data
train_Tel Aviv_Philadelphia
Failed after retries for train from Tel Aviv to Philadelphia
Success: flight from Tel Aviv to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Paris

Checking from Paris to Philadelphia
flight_Paris_Philadelphia
Using cached data
train_Paris_Philadelphia
Failed after retries for train from Paris to Philadelphia
Success: flight from Paris to Philadelphia
Beijing

Checking from Beijing to Philadelphia
flight_Beijing_Philadelphia
Using cached data
train_Beijing_Philadelphia
Failed after retries for train from Beijing to Philadelphia
Success: flight from Beijing to Philadelphia
Campinas

Checking from Campinas to Philadelphia
flight_Campinas_Philadelphia
Failed after retries for flight from Campinas to Philadelphia
train_Campinas_Philadelphia
Failed after retries for train from Campinas to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data
train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia
Using cached data
train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Stockholm

Checking from Stockholm to Philadelphia
flight_Stockholm_Philadelphia
Using cached data
train_Stockholm_Philadelphia
Failed after retries for train from Stockholm to Philadelphia
Success: flight from Stockholm to Philadelphia
Stockholm

Checking from Stockholm to Philadelphia
flight_Stockholm_Philadelphia
Using cached data
train_Stockholm_Philadelphia
Failed after retries for train from Stockholm to Philadelphia
Success: flight from Stockholm to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
London

Checking from London to Philadelphia
flight_London_Philadelphia
Using cached data
train_London_Philadelphia
Failed after retries for train from London to Philadelphia
Success: flight from London to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Amsterdam

Checking from Amsterdam to Philadelphia
flight_Amsterdam_Philadelphia
Using cached data
train_Amsterdam_Philadelphia
Failed after retries for train from Amsterdam to Philadelphia
Success: flight from Amsterdam to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data
train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Lyon

Checking from Lyon to Philadelphia
flight_Lyon_Philadelphia
Using cached data
train_Lyon_Philadelphia
Failed after retries for train from Lyon to Philadelphia
Success: flight from Lyon to Philadelphia
Des Moines

Checking from Des Moines to Philadelphia
flight_Des Moines_Philadelphia
Using cached data
train_Des Moines_Philadelphia
Failed after retries for train from Des Moines to Philadelphia
Success: flight from Des Moines to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia
Success: flight from Washington to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Denver

Checking from Denver to Philadelphia
flight_Denver_Philadelphia
Using cached data
train_Denver_Philadelphia
Failed after retries for train from Denver to Philadelphia
Success: flight from Denver to Philadelphia
Lyon

Checking from Lyon to Philadelphia
flight_Lyon_Philadelphia
Using cached data
train_Lyon_Philadelphia
Failed after retries for train from Lyon to Philadelphia
Success: flight from Lyon to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia
Using cached data
train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
Tucson

Checking from Tucson to Philadelphia
flight_Tucson_Philadelphia
train_Tucson_Philadelphia
Failed after retries for train from Tucson to Philadelphia
Success: flight from Tucson to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
New York

Checking from New York to Philadelphia

flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Detroit

Checking from Detroit to Philadelphia
flight_Detroit_Philadelphia
Using cached data
train_Detroit_Philadelphia
Failed after retries for train from Detroit to Philadelphia
Success: flight from Detroit to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Raleigh

Checking from Raleigh to Philadelphia
flight_Raleigh_Philadelphia
Using cached data
train_Raleigh_Philadelphia
Failed after retries for train from Raleigh to Philadelphia
Success: flight from Raleigh to Philadelphia
Berlin

Checking from Berlin to Philadelphia
flight_Berlin_Philadelphia
Using cached data
train_Berlin_Philadelphia
Failed after retries for train from Berlin to Philadelphia
Success: flight from Berlin to Philadelphia
Philadelphia

Checking from Philadelphia to Philadelphia
flight_Philadelphia_Philadelphia
Failed after retries for flight from Philadelphia to Philadelphia
train_Philadelphia_Philadelphia
Failed after retries for train from Philadelphia to Philadelphia
Orlando

Checking from Orlando to Philadelphia
flight_Orlando_Philadelphia

Using cached data
train_Orlando_Philadelphia
Failed after retries for train from Orlando to Philadelphia
Success: flight from Orlando to Philadelphia
Vienna

Checking from Vienna to Philadelphia
flight_Vienna_Philadelphia
Using cached data
train_Vienna_Philadelphia
Failed after retries for train from Vienna to Philadelphia
Success: flight from Vienna to Philadelphia
Charlotte

Checking from Charlotte to Philadelphia
flight_Charlotte_Philadelphia
Using cached data
train_Charlotte_Philadelphia
Failed after retries for train from Charlotte to Philadelphia
Success: flight from Charlotte to Philadelphia
Cleveland

Checking from Cleveland to Philadelphia
flight_Cleveland_Philadelphia
train_Cleveland_Philadelphia
Failed after retries for train from Cleveland to Philadelphia
Success: flight from Cleveland to Philadelphia
Lyon

Checking from Lyon to Philadelphia
flight_Lyon_Philadelphia
Using cached data
train_Lyon_Philadelphia
Failed after retries for train from Lyon to Philadelphia
Success: flight from Lyon to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia
Using cached data
train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
Toronto

Checking from Toronto to Philadelphia
flight_Toronto_Philadelphia
Using cached data

train_Toronto_Philadelphia
Failed after retries for train from Toronto to Philadelphia
Success: flight from Toronto to Philadelphia
Dublin

Checking from Dublin to Philadelphia
flight_Dublin_Philadelphia
train_Dublin_Philadelphia
Failed after retries for train from Dublin to Philadelphia
Success: flight from Dublin to Philadelphia
Zurich

Checking from Zurich to Philadelphia
flight_Zurich_Philadelphia
Using cached data
train_Zurich_Philadelphia
Failed after retries for train from Zurich to Philadelphia
Success: flight from Zurich to Philadelphia
Detroit

Checking from Detroit to Philadelphia
flight_Detroit_Philadelphia
Using cached data
train_Detroit_Philadelphia
Failed after retries for train from Detroit to Philadelphia
Success: flight from Detroit to Philadelphia
New Delhi

Checking from New Delhi to Philadelphia
flight_New Delhi_Philadelphia
Using cached data
train_New Delhi_Philadelphia
Failed after retries for train from New Delhi to Philadelphia
Success: flight from New Delhi to Philadelphia
Orlando

Checking from Orlando to Philadelphia
flight_Orlando_Philadelphia
Using cached data
train_Orlando_Philadelphia
Failed after retries for train from Orlando to Philadelphia
Success: flight from Orlando to Philadelphia
Ottawa

Checking from Ottawa to Philadelphia
flight_Ottawa_Philadelphia
Using cached data
train_Ottawa_Philadelphia

Failed after retries for train from Ottawa to Philadelphia
Success: flight from Ottawa to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Detroit

Checking from Detroit to Philadelphia
flight_Detroit_Philadelphia
Using cached data
train_Detroit_Philadelphia
Failed after retries for train from Detroit to Philadelphia
Success: flight from Detroit to Philadelphia
Tokyo

Checking from Tokyo to Philadelphia
flight_Tokyo_Philadelphia
Using cached data
train_Tokyo_Philadelphia
Failed after retries for train from Tokyo to Philadelphia
Success: flight from Tokyo to Philadelphia
Karachi

Checking from Karachi to Philadelphia
flight_Karachi_Philadelphia
Using cached data
train_Karachi_Philadelphia
Failed after retries for train from Karachi to Philadelphia
Success: flight from Karachi to Philadelphia
Des Moines

Checking from Des Moines to Philadelphia
flight_Des Moines_Philadelphia
Using cached data
train_Des Moines_Philadelphia
Failed after retries for train from Des Moines to Philadelphia
Success: flight from Des Moines to Philadelphia
Zhongzhou

Checking from Zhongzhou to Philadelphia
flight_Zhongzhou_Philadelphia
train_Zhongzhou_Philadelphia
Failed after retries for train from Zhongzhou to Philadelphia

Success: flight from Zhongzhou to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
Frankfurt

Checking from Frankfurt to Philadelphia
flight_Frankfurt_Philadelphia
Using cached data
train_Frankfurt_Philadelphia
Failed after retries for train from Frankfurt to Philadelphia
Success: flight from Frankfurt to Philadelphia
Minneapolis

Checking from Minneapolis to Philadelphia
flight_Minneapolis_Philadelphia
Using cached data
train_Minneapolis_Philadelphia
Failed after retries for train from Minneapolis to Philadelphia
Success: flight from Minneapolis to Philadelphia
Chicago

Checking from Chicago to Philadelphia
flight_Chicago_Philadelphia
Using cached data
train_Chicago_Philadelphia
Failed after retries for train from Chicago to Philadelphia
Success: flight from Chicago to Philadelphia
Montreal

Checking from Montreal to Philadelphia
flight_Montreal_Philadelphia
Using cached data
train_Montreal_Philadelphia
Failed after retries for train from Montreal to Philadelphia
Success: flight from Montreal to Philadelphia
Washington

Checking from Washington to Philadelphia
flight_Washington_Philadelphia
Using cached data
train_Washington_Philadelphia
Failed after retries for train from Washington to Philadelphia

Success: flight from Washington to Philadelphia
New York

Checking from New York to Philadelphia
flight_New York_Philadelphia
Using cached data
train_New York_Philadelphia
Failed after retries for train from New York to Philadelphia
Success: flight from New York to Philadelphia
San Francisco

Checking from San Francisco to Philadelphia
flight_San Francisco_Philadelphia
train_San Francisco_Philadelphia
Failed after retries for train from San Francisco to Philadelphia
Success: flight from San Francisco to Philadelphia
nan

Checking from nan to Philadelphia
flight_nan_Philadelphia
Error for flight from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for flight from nan to Philadelphia
train_nan_Philadelphia
Error for train from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for train from nan to Philadelphia
Santa Barbara

Checking from Santa Barbara to Philadelphia
flight_Santa Barbara_Philadelphia
train_Santa Barbara_Philadelphia
Failed after retries for train from Santa Barbara to Philadelphia
Success: flight from Santa Barbara to Philadelphia
Riverside

Checking from Riverside to Philadelphia
flight_Riverside_Philadelphia
train_Riverside_Philadelphia
Failed after retries for train from Riverside to Philadelphia
Success: flight from Riverside to Philadelphia
Los Angeles

Checking from Los Angeles to Philadelphia
flight_Los Angeles_Philadelphia
train_Los Angeles_Philadelphia
Failed after retries for train from Los Angeles to Philadelphia
Success: flight from Los Angeles to Philadelphia
Riverside

Checking from Riverside to Philadelphia
flight_Riverside_Philadelphia
Using cached data
train_Riverside_Philadelphia
Failed after retries for train from Riverside to Philadelphia
Success: flight from Riverside to Philadelphia
San Francisco

Checking from San Francisco to Philadelphia
flight_San Francisco_Philadelphia
Using cached data
train_San Francisco_Philadelphia
Failed after retries for train from San Francisco to Philadelphia
Success: flight from San Francisco to Philadelphia
Irvine

Checking from Irvine to Philadelphia
flight_Irvine_Philadelphia
train_Irvine_Philadelphia
Failed after retries for train from Irvine to Philadelphia
Success: flight from Irvine to Philadelphia
Irvine

Checking from Irvine to Philadelphia
flight_Irvine_Philadelphia
Using cached data
train_Irvine_Philadelphia
Failed after retries for train from Irvine to Philadelphia
Success: flight from Irvine to Philadelphia
Los Angeles

Checking from Los Angeles to Philadelphia
flight_Los Angeles_Philadelphia
Using cached data
train_Los Angeles_Philadelphia
Failed after retries for train from Los Angeles to Philadelphia
Success: flight from Los Angeles to Philadelphia
San Diego

Checking from San Diego to Philadelphia
flight_San Diego_Philadelphia
train_San Diego_Philadelphia
Failed after retries for train from San Diego to Philadelphia
Success: flight from San Diego to Philadelphia
Los Angeles

Checking from Los Angeles to Philadelphia
flight_Los Angeles_Philadelphia

Using cached data

train_Los Angeles_Philadelphia

Failed after retries for train from Los Angeles to Philadelphia

Success: flight from Los Angeles to Philadelphia

Santa Barbara

Checking from Santa Barbara to Philadelphia

flight_Santa Barbara_Philadelphia

Using cached data

train_Santa Barbara_Philadelphia

Failed after retries for train from Santa Barbara to Philadelphia

Success: flight from Santa Barbara to Philadelphia

Santa Barbara

Checking from Santa Barbara to Philadelphia

flight_Santa Barbara_Philadelphia

Using cached data

train_Santa Barbara_Philadelphia

Failed after retries for train from Santa Barbara to Philadelphia

Success: flight from Santa Barbara to Philadelphia

nan

Checking from nan to Philadelphia

flight_nan_Philadelphia

Error for flight from nan to Philadelphia: quote_from_bytes() expected bytes

Failed after retries for flight from nan to Philadelphia

train_nan_Philadelphia

Error for train from nan to Philadelphia: quote_from_bytes() expected bytes

Failed after retries for train from nan to Philadelphia

San Francisco

Checking from San Francisco to Philadelphia

flight_San Francisco_Philadelphia

Using cached data

train_San Francisco_Philadelphia

Failed after retries for train from San Francisco to Philadelphia

Success: flight from San Francisco to Philadelphia

nan

Checking from nan to Philadelphia

flight_nan_Philadelphia

Error for flight from nan to Philadelphia: quote_from_bytes() expected bytes

Failed after retries for flight from nan to Philadelphia

train_nan_Philadelphia

Error for train from nan to Philadelphia: quote_from_bytes() expected bytes

Failed after retries for train from nan to Philadelphia

nan

Checking from nan to Philadelphia
flight_nan_Philadelphia
Error for flight from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for flight from nan to Philadelphia
train_nan_Philadelphia
Error for train from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for train from nan to Philadelphia
Los Angeles

Checking from Los Angeles to Philadelphia
flight_Los Angeles_Philadelphia
Using cached data
train_Los Angeles_Philadelphia
Failed after retries for train from Los Angeles to Philadelphia
Success: flight from Los Angeles to Philadelphia
San Francisco

Checking from San Francisco to Philadelphia
flight_San Francisco_Philadelphia
Using cached data
train_San Francisco_Philadelphia
Failed after retries for train from San Francisco to Philadelphia
Success: flight from San Francisco to Philadelphia
nan

Checking from nan to Philadelphia
flight_nan_Philadelphia
Error for flight from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for flight from nan to Philadelphia
train_nan_Philadelphia
Error for train from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for train from nan to Philadelphia
San Francisco

Checking from San Francisco to Philadelphia
flight_San Francisco_Philadelphia
Using cached data
train_San Francisco_Philadelphia
Failed after retries for train from San Francisco to Philadelphia
Success: flight from San Francisco to Philadelphia
nan

Checking from nan to Philadelphia
flight_nan_Philadelphia
Error for flight from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for flight from nan to Philadelphia
train_nan_Philadelphia
Error for train from nan to Philadelphia: quote_from_bytes() expected bytes

Failed after retries for train from nan to Philadelphia
San Francisco

Checking from San Francisco to Philadelphia
flight_San Francisco_Philadelphia
Using cached data
train_San Francisco_Philadelphia
Failed after retries for train from San Francisco to Philadelphia
Success: flight from San Francisco to Philadelphia
nan

Checking from nan to Philadelphia
flight_nan_Philadelphia
Error for flight from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for flight from nan to Philadelphia
train_nan_Philadelphia
Error for train from nan to Philadelphia: quote_from_bytes() expected bytes
Failed after retries for train from nan to Philadelphia
San Francisco

Checking from San Francisco to Philadelphia
flight_San Francisco_Philadelphia
Using cached data
train_San Francisco_Philadelphia
Failed after retries for train from San Francisco to Philadelphia
Success: flight from San Francisco to Philadelphia
San Francisco

Checking from San Francisco to Philadelphia
flight_San Francisco_Philadelphia
Using cached data
train_San Francisco_Philadelphia
Failed after retries for train from San Francisco to Philadelphia
Success: flight from San Francisco to Philadelphia
Updated data saved to Aarhus.xlsx

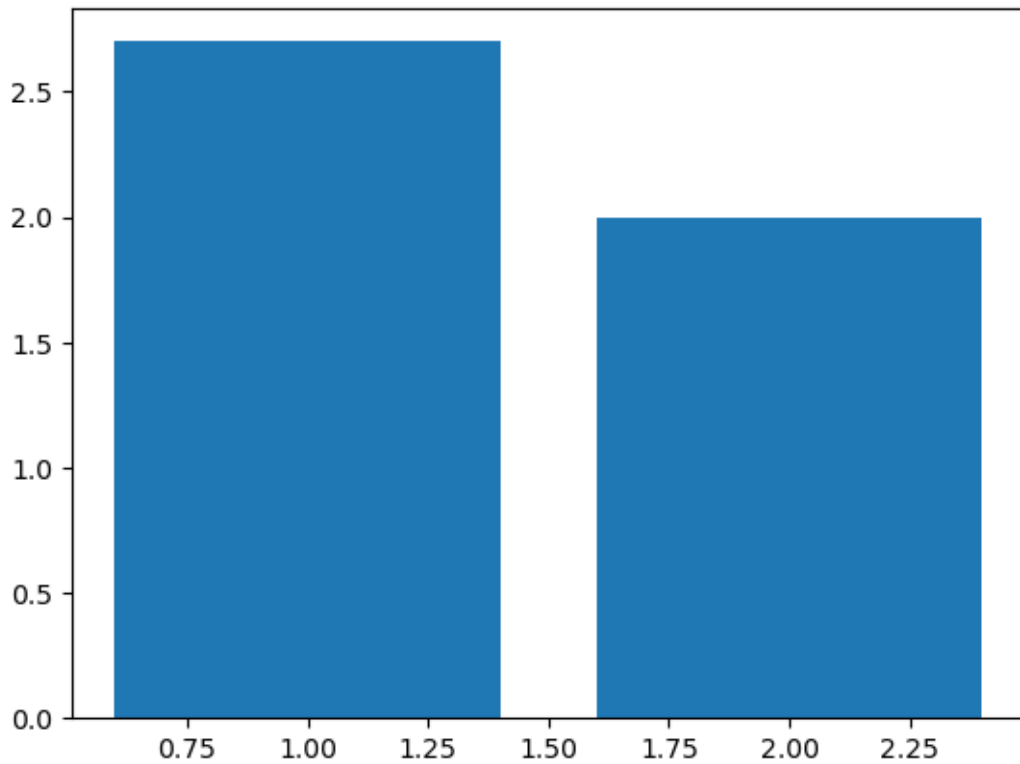
```
/var/folders/9d/7b475p116rg9d6wl7x2s2hbh0000gn/T/ipykernel_4132/1569933724.py:27
: FutureWarning: Downcasting object dtype arrays on .fillna, .ffill, .bfill is
deprecated and will change in a future version. Call
result.infer_objects(copy=False) instead. To opt-in to the future behavior, set
`pd.set_option('future.no_silent_downcasting', True)`
  df[f'flight_co2eq_{destination}'] =
df[f'flight_co2eq_{destination}'].fillna(0)
/var/folders/9d/7b475p116rg9d6wl7x2s2hbh0000gn/T/ipykernel_4132/1569933724.py:28
: FutureWarning: Downcasting object dtype arrays on .fillna, .ffill, .bfill is
deprecated and will change in a future version. Call
result.infer_objects(copy=False) instead. To opt-in to the future behavior, set
`pd.set_option('future.no_silent_downcasting', True)`
```

```
df[f'train_co2eq_{destination}'] = df[f'train_co2eq_{destination}'].fillna(0)
```

```
[8]: x=[1,2]
```

```
[9]: y=[2.7,2]
```

```
[11]: plt.bar(x,y)  
plt.savefig('ENC_Asilomar_vs_Philadelphia.pdf')
```



```
[ ]:
```