Greedy

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Chapter 1

STVD-PMS

This repo is used to extract the metadata from TV channels

1.1 Data loader

Download data from the link: https://drive.google.com/drive/folders/1wvL6HJwhUpC1←QFqRUHy1WuobupTNrCR1?usp=sharing

Move the folder 'data' into the project directory.

1.2 Natural Language Text Processing with XML

The first step is to extract all of the TV programs during from at 06:00 AM to 02:00 AM of a next day. However, the TV program could be error-prone due to the nameing convention and it requires some filter rules as follows:

- Ignore the program having duration is less then five minutes (<5 mins>);
- · Filter out any two programs are overlapped.

Sepcifically, given a list of the xml files, the collection.csv file will be generated as following.

- Input: the list of XML file with filenames formatted yyyy-mm-dd_HHMMSS.xml
- Ouput: The list of TV programs that provided for each day based on the name of the XML file.

For example:

Input: The file 2022-01-01_100000.xml

Ouput: List of TV programs which its starts FROM at 06:00:00 01-01-2022 TO at 02:00:00 02-01-2022

Notes: Using SHA-1 hash function for robustness of TV titles.

2 STVD-PMS

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

| 1_generate_latency | | | | | | | | | | | | | | | | | | | | | | 9 |
|--------------------|--|--|------|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|----|
| common | | | | | | | | | | | | | | | | | | | | | | 10 |

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Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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File Index

4.1 File List

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| E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/Python/common.py | 32 |

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Chapter 5

Namespace Documentation

5.1 1_generate_latency Namespace Reference

Functions

- def nomarlizeText (element)
- def check_timestamp_valid (filename_str, date_valid)
- def convert_xlm_file_to_date (filename_str)
- def checking ()
- def read_xml (base_path, input_file, channel_c)
- def main ()

Variables

• list data_list = []

5.1.1 Function Documentation

5.1.1.1 check_timestamp_valid()

5.1.1.2 checking()

```
def 1\_generate\_latency.checking ( )
```

5.1.1.3 convert_xlm_file_to_date()

```
\label{local_def} \begin{tabular}{ll} def 1\_generate\_latency.convert\_xlm\_file\_to\_date \ ( \\ & \it{filename\_str} \ ) \end{tabular}
```

5.1.1.4 main()

```
def 1_generate_latency.main ( )
```

5.1.1.5 nomarlizeText()

```
\begin{tabular}{ll} $\operatorname{def 1\_generate\_latency.nomarlizeText} & \\ & & element \end{tabular} \end{tabular}
```

5.1.1.6 read_xml()

5.1.2 Variable Documentation

5.1.2.1 data_list

```
list 1_generate_latency.data_list = []
```

5.2 common Namespace Reference

Functions

- def get_channel_name_by_code (channel_code)
- def check_file (file_name, path_name)
- def map_channel (channel_code)

5.2.1 Function Documentation

5.2.1.1 check_file()

```
def common.check_file (
          file_name,
          path_name )
```

5.2.1.2 get_channel_name_by_code()

5.2.1.3 map_channel()

Chapter 6

Class Documentation

6.1 Greedy Class Reference

```
#include <Greedy.h>
```

Public Member Functions

• Greedy ()

Construct a new Greedy:: Greedy object.

• Greedy (vector< Interval > omega, short maxChannel, float alpha)

Construct a new Greedy:: Greedy object.

void setOmega (vector< Interval > omega)

Sets a new list of intervals to find a solution for.

void setMaxChannel (short maxChannel)

Sets a new max channel.

void setAlpha (float alpha)

Sets a new alpha value.

void findQi (int omega_id)

Finds the Qi list of intervals (every interval that intersects with the current interval)

• void findPoints ()

Finds and initiates the points of the Qi list.

• void findCi ()

Finds the Ci list of intervals (minimal cost of the Qi list)

bool exchangeCheck (Interval *i)

Checks if the exchange of Ci' (Ci + i') by i is worth it.

vector< Interval * > solve ()

6.1.1 Constructor & Destructor Documentation

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6.1.1.1 Greedy() [1/2]

```
Greedy::Greedy ( )
```

Construct a new Greedy:: Greedy object.

< Alpha value

6.1.1.2 Greedy() [2/2]

Construct a new Greedy:: Greedy object.

Parameters

omega List of all intervals

6.1.2 Member Function Documentation

6.1.2.1 exchangeCheck()

Checks if the exchange of Ci' (Ci + i') by i is worth it.

Returns

true If the exchange is worth it false If the exchange is not worth it

6.1.2.2 findCi()

```
void Greedy::findCi ( )
```

Finds the Ci list of intervals (minimal cost of the Qi list)

Parameters

| point← | ld of the point in the points list |
|--------|------------------------------------|
| ld | |

6.1.2.3 findPoints()

```
void Greedy::findPoints ( )
```

Finds and initiates the points of the Qi list.

6.1.2.4 findQi()

```
void Greedy::findQi (
          int omega_id )
```

Finds the Qi list of intervals (every interval that intersects with the current interval)

Parameters

| omega⇔ | ld of the interval in the omega list |
|--------|--------------------------------------|
| id | |

6.1.2.5 setAlpha()

Sets a new alpha value.

Parameters

alpha

6.1.2.6 setMaxChannel()

Sets a new max channel.

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Parameters

maxChannel

6.1.2.7 setOmega()

Sets a new list of intervals to find a solution for.

Parameters

omega

6.1.2.8 solve()

```
vector< Interval * > Greedy::solve ( )
```

The documentation for this class was generated from the following files:

- E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy.h
- E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/Greedy.cpp

6.2 Interval Class Reference

```
#include <Interval.h>
```

Public Member Functions

• Interval ()

Construct a new Interval:: Interval object.

• Interval (short id, long long startDate, long long stopDate, string channel, string hashcode)

Construct a new Interval:: Interval object.

• short getId ()

Gets the id of the interval.

• long long getStartDate ()

Gets the start date of the interval.

• long long getStopDate ()

Gets the stop date of the interval.

• string getChannel ()

Gets the channel of the interval.

• string getHashcode ()

Gets the hashcode of the interval.

• short getWeight ()

Gets the weight of the interval.

• void setStartDate (long long startDate)

Gets the point list of the interval.

• void setStopDate (long long stopDate)

Sets the stop date of the interval.

• void generateRandomWeight ()

Sets the point list of the interval.

• void printInterval ()

Prints the interval.

6.2.1 Constructor & Destructor Documentation

6.2.1.1 Interval() [1/2]

```
Interval::Interval ( )
```

Construct a new Interval:: Interval object.

6.2.1.2 Interval() [2/2]

Construct a new Interval:: Interval object.

Parameters

| id | Interval id |
|-----------|---------------------|
| startDate | Interval start date |
| stopDate | Interval stop date |
| channel | Interval channel |
| hashcode | Interval hashcode |

6.2.2 Member Function Documentation

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6.2.2.1 generateRandomWeight()

```
void Interval::generateRandomWeight ( )
```

Sets the point list of the interval.

Parameters

pointList Point list of the interval

Adds a point to the point list of the interval

Parameters

| point | Point to add |
|-------|--------------|
|-------|--------------|

Gets the first point of the interval

Returns

short First point of the interval

Gets the last point of the interval

Returns

short Last point of the interval

Generates a random weight for the interval using its hashcode

6.2.2.2 getChannel()

```
string Interval::getChannel ( )
```

Gets the channel of the interval.

Returns

short Channel of the interval

6.2.2.3 getHashcode()

```
string Interval::getHashcode ( )
```

Gets the hashcode of the interval.

Returns

char* Hashcode of the interval

6.2.2.4 getId()

```
short Interval::getId ( )
```

Gets the id of the interval.

Returns

short Id of the interval

6.2.2.5 getStartDate()

```
long long Interval::getStartDate ( )
```

Gets the start date of the interval.

Returns

long Start date of the interval

6.2.2.6 getStopDate()

```
long long Interval::getStopDate ( )
```

Gets the stop date of the interval.

Returns

long Stop date of the interval

6.2.2.7 getWeight()

```
short Interval::getWeight ( )
```

Gets the weight of the interval.

Returns

short Weight of the interval

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6.2.2.8 printInterval()

```
void Interval::printInterval ( )
```

Prints the interval.

6.2.2.9 setStartDate()

Gets the point list of the interval.

Returns

vector<short> Point list of the interval

Sets the start date of the interval

Parameters

startDate Start date of the interval

6.2.2.10 setStopDate()

Sets the stop date of the interval.

Parameters

stopDate Stop date of the interval

The documentation for this class was generated from the following files:

- E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/Interval.h
- E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/Interval.cpp

6.3 IntervalParser Class Reference

#include <IntervalParser.h>

Public Member Functions

• IntervalParser ()

Construct a new Interval Parser:: Interval Parser object.

∼IntervalParser ()

Destroy the Interval Parser:: Interval Parser object.

vector< Interval > parse (string fileName)

Parses the file and returns a vector of intervals.

void sortIntervals (vector < Interval > &intervalList)

Sorts the intervals by start date.

void originToZero (vector< Interval > &intervalList)

Sets the origin of the start date to 0.

6.3.1 Constructor & Destructor Documentation

6.3.1.1 IntervalParser()

```
IntervalParser::IntervalParser ( )
```

Construct a new Interval Parser:: Interval Parser object.

6.3.1.2 \sim IntervalParser()

```
IntervalParser::~IntervalParser ( )
```

Destroy the Interval Parser:: Interval Parser object.

6.3.2 Member Function Documentation

6.3.2.1 originToZero()

```
void IntervalParser::originToZero ( vector < \ Interval \ > \ \& \ intervalList \ )
```

Sets the origin of the start date to 0.

Parameters

| intervalList | The list of intervals to modify |
|--------------|---------------------------------|

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6.3.2.2 parse()

Parses the file and returns a vector of intervals.

Parameters

| $nme \mid$ The PATH of the file to parse | е |
|--|---|
|--|---|

Returns

vector<Interval>

6.3.2.3 sortIntervals()

Sorts the intervals by start date.

Parameters

| ıntervalLıst | The list of intervals to sort |
|--------------|-------------------------------|

The documentation for this class was generated from the following files:

- E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/IntervalParser.h
- $\bullet \ E: /Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/IntervalParser.cpp$

6.4 Point Class Reference

```
#include <Point.h>
```

Public Member Functions

• Point ()

Construct a new Point:: Point object.

• Point (short id)

Construct a new Point:: Point object.

6.4 Point Class Reference 23

• short getId ()

Gets the id of the point.

• short getCost ()

Gets the cost of the point.

• short getMinInterval ()

Gets the min interval of the point.

• void setCost (short cost)

Sets the cost of the point.

• void setMinInterval (short minInterval)

Sets the min interval of the point.

6.4.1 Constructor & Destructor Documentation

6.4.1.1 Point() [1/2]

```
Point::Point ( )
```

Construct a new Point:: Point object.

6.4.1.2 Point() [2/2]

Construct a new Point:: Point object.

Parameters

| id | Point id |
|------|------------|
| cost | Point cost |

6.4.2 Member Function Documentation

6.4.2.1 getCost()

```
short Point::getCost ( )
```

Gets the cost of the point.

Returns

short Cost of the point

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6.4.2.2 getId()

```
short Point::getId ( )
```

Gets the id of the point.

Returns

short Id of the point

6.4.2.3 getMinInterval()

```
short Point::getMinInterval ( )
```

Gets the min interval of the point.

Returns

short Min interval of the point

6.4.2.4 setCost()

Sets the cost of the point.

Parameters

```
cost | Cost of the point
```

6.4.2.5 setMinInterval()

Sets the min interval of the point.

The documentation for this class was generated from the following files:

- E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/Point.h
- $\bullet \ \ E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/Point.cpp$

6.5 SolutionParser Class Reference

```
#include <SolutionParser.h>
```

Public Member Functions

- SolutionParser ()
- ∼SolutionParser ()
- void writeCSV (vector< Interval * > solution)

6.5.1 Constructor & Destructor Documentation

6.5.1.1 SolutionParser()

```
SolutionParser::SolutionParser ( )
```

6.5.1.2 ∼SolutionParser()

```
SolutionParser::~SolutionParser ()
```

6.5.2 Member Function Documentation

6.5.2.1 writeCSV()

The documentation for this class was generated from the following files:

- E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/SolutionParser.h
- E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/SolutionParser.cpp

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Chapter 7

File Documentation

7.1 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/
Greedy.cpp File Reference

```
#include "Greedy.h"
```

7.2 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/
Greedy.h File Reference

```
#include "Interval.h"
#include "Point.h"
#include <vector>
#include <algorithm>
```

Classes

· class Greedy

7.3 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ Greedy.h

Go to the documentation of this file.

```
00001 #pragma once
00002 #include "Interval.h"
00003 #include "Point.h"
00004 #include <vector>
00005 #include <algorithm>
00006
00007 using namespace std;
00008
00009 class Greedy{
00010 private:
00011 vector<Interval> omega;
00012 vector<Interval *> solution;
```

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```
vector<Interval *> qi;
       vector<Interval *> ci;
Interval * iPrime;
00015
         vector<Point> points;
00016
00017
         vector<short> first;
         vector<short> last;
00018
         short maxChannel;
00020
          float alpha;
00022 public:
00023
         Greedy();
00024
         Greedy(vector<Interval> omega, short maxChannel, float alpha);
00025
00026
         void setOmega(vector<Interval> omega);
00027
          void setMaxChannel(short maxChannel);
00028
         void setAlpha(float alpha);
00029
          void findQi(int omega_id);
00030
00031
         void findPoints();
          void findCi();
00033
         bool exchangeCheck(Interval * i);
00034
00035
          vector<Interval *> solve();
00036 };
```

7.4 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ Interval.cpp File Reference

```
#include "Interval.h"
```

7.5 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ Interval.h File Reference

```
#include <iostream>
#include <vector>
```

Classes

· class Interval

7.6 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ Interval.h

Go to the documentation of this file.

```
00001 #pragma once
00002 #include <iostream>
00003 #include <vector>
00004
00005 using namespace std;
00006 class Interval{
00007 private:
         short id;
00009
         long long startDate;
00010
         long long stopDate;
00011
         string channel;
00012
         string hashcode;
00013
         short weight:
00014
         //vector<short> pointList;
```

```
00016 public :
00017
00018
              Interval(short id, long long startDate, long long stopDate, string channel, string hashcode);
00019
            short getId();
long long getStartDate();
long long getStopDate();
00020
00021
00022
00023
             string getChannel();
00024
             string getHashcode();
            string getWeight();
short getWeight();
//vector<short> getPointList();
void setStartDate(long long startDate);
void setStopDate(long long stopDate);
//void setPointList(vector<short> pointList);
00025
00025
00026
00027
00028
00029
00030
00031
00032
            //void addPoint(short point);
             //short first();
//short last();
00033
00034
             void generateRandomWeight();
00035
             void printInterval();
00036
00037 };
00038
```

7.7 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ IntervalParser.cpp File Reference

```
#include "IntervalParser.h"
```

7.8 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ IntervalParser.h File Reference

```
#include "Interval.h"
#include <iostream>
#include <fstream>
#include <vector>
#include <sstream>
#include <sstring>
#include <algorithm>
```

Classes

· class IntervalParser

Macros

• #define IntervalParser8H

7.8.1 Macro Definition Documentation

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7.8.1.1 IntervalParser8H

#define IntervalParser8H

7.9 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ IntervalParser.h

Go to the documentation of this file.

```
00001 #pragma once
00002
00003 #ifndef IntervalParser_H
00004 #define IntervalParser8H
00005
00006 #include "Interval.h"
00007 #include <iostream>
00008 #include <fstream>
00009 #include <vector>
00010 #include <sstream>
00011 #include <string>
00012 #include <algorithm>
00013
00014 using namespace std;
00015
00016 class IntervalParser{
00017 private:
00018
          /* data */
00019 public:
00020    IntervalParser();
00021    ~IntervalParser();
00022
00023
         vector<Interval> parse(string fileName);
00024
          void sortIntervals(vector<Interval> &intervalList);
00025
          void originToZero(vector<Interval> &intervalList);
00026 };
00027
00028 #endif
```

7.10 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/ Greedy/main.cpp File Reference

```
#include <iostream>
#include "interval.h"
#include "intervalParser.h"
#include "solutionParser.h"
#include "greedy.h"
#include "Point.h"
```

Functions

• int main ()

7.10.1 Function Documentation

7.10.1.1 main()

```
int main ( )
```

7.11 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/
Point.cpp File Reference

```
#include "Point.h"
```

7.12 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/

Point.h File Reference

Classes

· class Point

7.13 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/
Point.h

Go to the documentation of this file.

7.14 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/

Python/1_generate_latency.py File Reference

Namespaces

• namespace 1 generate latency

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Functions

```
• def 1_generate_latency.nomarlizeText (element)
```

- def 1_generate_latency.check_timestamp_valid (filename_str, date_valid)
- def 1 generate latency.convert xlm file to date (filename str)
- def 1 generate latency.checking ()
- def 1_generate_latency.read_xml (base_path, input_file, channel_c)
- def 1_generate_latency.main ()

Variables

list 1_generate_latency.data_list = []

7.15 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ Python/common.py File Reference

Namespaces

• namespace common

Functions

- def common.get_channel_name_by_code (channel_code)
- def common.check_file (file_name, path_name)
- def common.map_channel (channel_code)
- 7.16 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/
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- 7.17 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/
 SolutionParser.cpp File Reference

```
#include "SolutionParser.h"
```

7.18 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/
SolutionParser.h File Reference

```
#include <iostream>
#include <fstream>
#include <vector>
#include <sstream>
#include "Interval.h"
```

Classes

class SolutionParser

7.19 E:/Poly/DI5/PRD/Algo_workspace/GreedyAlpha/Greedy/Greedy/ SolutionParser.h

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