CS 61B

Projects / Project 2C: Ngordn程ha序顺线写代做 CS编程辅导

Project 2C:

it Enhancements

FAQ

Each assignment will hat the top. You can also access it by adding "/faq" to the end of the URL. The trace to the end of the URL and the trace to the top. You can also access it by adding "/faq" to

Checkpoint & Design Docubue 85/15/2624

Coding Due 04/64/28ignment Project Exam Help

In this project, you'll complete your implementation of the NG ordnet for k!=0 and common Ancestors case Email: tutorcs@163.com

As this is a quite new project, there may be occasional bugs or confusion with the spec. If you notice anything of this sort, passed by the second second bugs or confusion with the spec. If you notice anything of this sort, passed by the second bugs or confusion with the spec. If you notice anything of this sort, passed by the second bugs or confusion with the spec. If you notice anything of this sort, passed by the second bugs or confusion with the spec. If you notice anything of this sort, passed by the second bugs or confusion with the spec.

DANGER

Please read through the 2B spec before starting 2C.

Project Setup

DANGER

THE SETUP FOR THIS PROJECT IS DIFFERENT THAN THE OTHER LABS / PROJECTS. PLEASE DO NOT SKIP THIS STEP!

Skeleton Setup

- 1 Similar to other assignments in this class, run git pull skeleton main to get the skeleton code for this project.
 - a NOTE: You'll notice that this skeleton is (almost) the exact same as the Project 2B skeleton. This is intentional.
- 2 Download the data files for this project using this link and move them into your proj2c folder on the same level as src.

- 3 Copy your implementation from 2A for ngrams, including TimeSeries and NGramMap, into the proj2c folder.
- 4 Copy your implementation from 2B into the proj2c folder, commonAncestors will depend on your implementation

should look like this: Once you are done, you proj2c Copy – data ngrams └─ wordnet - src ⊢ <2B helper fWseChat: cstutorcs browser - main Assignment Project Exam Help ngrams

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-- <Your NGramMap implementation from 2A>

https://tutorcs.com While you can (and should!) certainly design for 2C in advance, we suggest only starting to code after you get a full score on Project 2B just in case your implementation has any subtle bugs in it.

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Getting Started

— plotting

- static

- tests

WARNING

WARNING

IMPORTANT NOTE: You should *really* complete **Project 2B/C:** Checkpoint first before starting coding, or even designing your project. It will be helpful for your understanding of the project. We will also require you to submit a design document to Gradescope. More details about the design document can be found in Deliverables and Scoring.

This part of the project is designed for you to come up with an efficient and correct design for your implementation. The design you come up with will be very important to handle these cases. Please read the 2B & 2C spec carefully before starting your design document.

We've created two wonderful tools that you can (and should!) use to explore the dataset, see how the staff solution behaves for specific inputs, and get expected outputs for your unit tests (see <u>Testing Your Code</u>). We'll link them here, as well as in other relevant parts of the spec.

- Wordnet Visualizer: Useful for visually understanding how synsets and hyponyms work and testing different words/lists of words for potential test case inputs. Click on the "?" bubbles to learn how to use t
- Staff Solution Webpa • erating expected outputs for different test case inputs. Use this to w

TASK

Read through the entire 2B/C spec and complete Project 2B/C: Checkpoint

After finishing the checkpoin Chapter Estat bottom

Handling k != 0 Assignment Project Exam Help

In Project 2B, we handle the situation where keep the situation where k

Your required task is to handle the various construction of hyponyms that we want in our output. For example, if someone enters the word "dog", and then enters k = 5, your code would return at most 5 words.

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To choose the 5 hyponyms, you should return the $\,k\,$ words which occurred the most times in the time range requested. For example, if someone entered words = ["food", "cake"], startYear = 1950, endYear = 1990, and k=5, then you would find the 5 most popular words in that time period that are hyponyms of both food and cake. Here, the popularity is defined as the total number of times the word appears over the entire time period requested. The words should then be returned in alphabetical order. In this case, the answer is [cake, cookie, kiss, snap, wafer] if we're using top_14377_words.csv, total_counts.csv, synsets.txt, and hyponyms.txt.

DANGER

Be sure you are getting the words that appear with the highest *counts*, not the highest *weights*. Otherwise, you will run into issues that are very difficult to debug!

Note that if the frontend doesn't supply a year, default values of startYear = 1900 and endYear = 2020 are provided by NGordnetQueryHandler.readQueryMap.

It might be hard to figure out the hyponyms of the words with k!= 0 so we are providing data that is easier to visualize! Below, you'll see a modified version for EECS class

requirements, inspired by HKN. We have also provided the data that represents the graph below (frequency-EECS.csv, hyponyms-EECS.txt, synsets-EECS.txt). If someone entered words = ["CS61A"], startYear = 2010, endYear = 2020, and k = 4, you should receive "[CS170, CS61A, CS61B 1501]". This friquency ELCS 1501 11. This friquency ELCS 1501 11. This friquency ELCS 1501 11. This friquency you are designing your implementation, bear this in mind that we can give you are frequencies.

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If a word never occurs in the time frame specified, i.e. the count is zero, it should not be returned. In other words, if k > 0, we should not show any words that do not appear in the ngrams dataset.

If there are no words that have non-zero counts, you should return an empty list, i.e. [].

If there are fewer than k words with non-zero counts, return only those words. For example if you enter the word "potato" and enter k = 15, but only 7 hyponyms of "potato" have non-zero counts, you'd return only 7 words.

This task will be a little trickier since you'll need to figure out how to pass information around so that the HyponymsHandler knows how to access a useful NGramMap.

TASK

Modify your HyponymsHandler and the rest of your implementation to deal with the k = 0 case.

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WARNING

EECS-course guide is not available on the interactive web staff solution so it won't return anything if you give the staff solution so it won't return

DANGER

make some sort of public static NoramMap that can be accessed from anywhere in your code. This is called a "global variable".

We strongly discourage this way of thinking about programming, and instead suggest that you should be passing an NGramMap to either constructors or methods. We'll come back to talking about this dang signiment her projects. Exam Help

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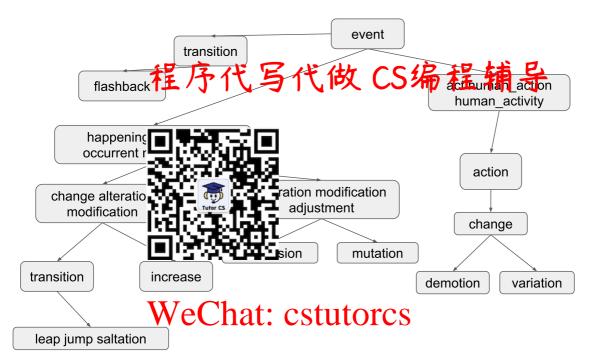
- Until you use the autograder, you'll need to construct your own test cases. We provided one in the previous set $\frac{1950}{49389476}$, startYear = 1950, endYear = 1990, k = 5.
- When constructing your own test cases, consider making your own input files. Using the large input files we platted to the second construction of the large input files we platted to the large input files we platted to the large input files.

Finding Common Ancestors

Up until now, we have only been concerned with finding the common hyponyms of words. For the last part of this project, your task is to find the common *ancestors*.

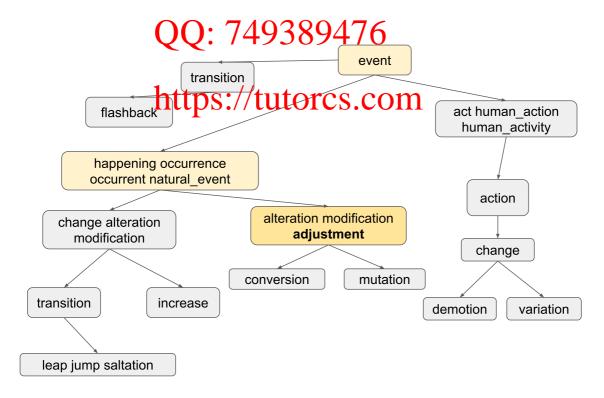
That is, given a set of words, what words contain the given set of words as hyponyms?

For example, consider synsets16.txt and hyponyms16.txt from 2B:

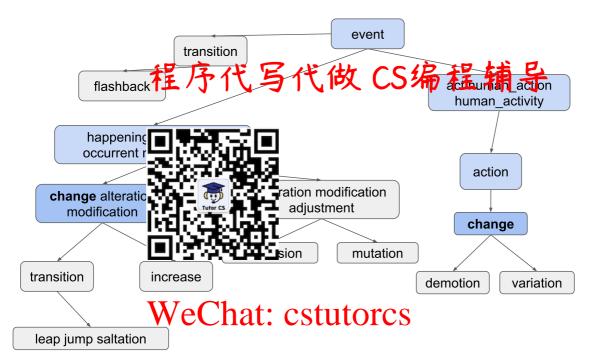


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If we find the ancestors of "adjustment", we should get "[adjustment, alteration, event, happening, modification, modification,



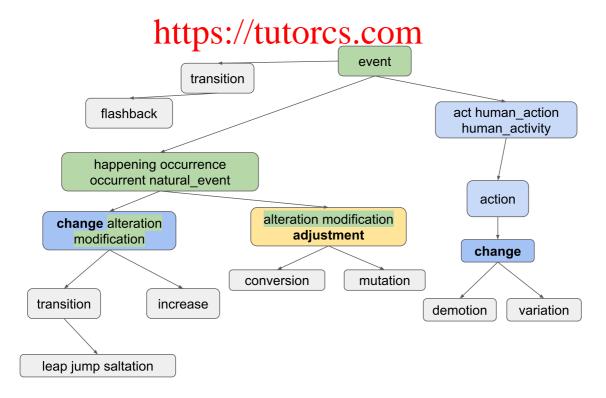
This also should apply to words in multiple contexts, as seen with "change":



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The ancestors of "change" should be "[act, action, alteration, change, event, happening, human_action_name laction to be at the same action occurrent.".

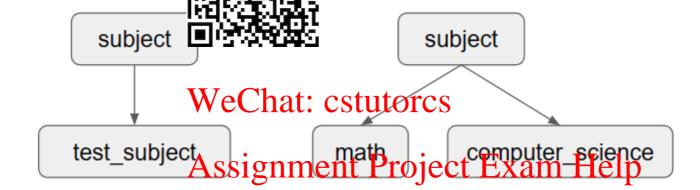
We can also ask for the opin and \$97389407 fords, which can reveal some neat relationships!



Here, we find the common ancestors of the words = ["change", "adjustment"]. The result should be "[alteration, event, happening, modification, natural_event, occurrence,

occurrent]", which are all the words in the graph that contain *both* "change" and "adjustment" as hyponyms. Note that "alteration" and "modification" are also included in the result, contrary to what you might expect, as explained below.

Note: Be sure to take a word intersection rather than a node intersection just as in 2B, so the common ancestors of ["+est subject" "math"] in the following graph should return "[subject]", as "subject" "test_subject" and "math" as hyponyms, even though "test_subject" not directly connected in the graph.



We may also ask for control of three or well to the last three or well as the last three or well

Note that the outputs are in alphabetical order, and keep in mind that $k \neq 0$ can also apply to this task. QQ: 749389476

Your query handling needs to remain efficient for common ancestors (i.e., the timeouts applied to 2B still apply here). The transmitted to 2B still apply here). The transmitted to 2B still apply here). The transmitted transmitted to 2B still apply here). The transmitted transmitted to 2B still apply here). The transmitted transm

NgordnetQueryType

You will need to modify your HyponymsHandler class to account for the *type* of query, i.e., hyponyms or common ancestors. This should look similar to how you found startYear, endYear, or k, and this will be specified for you with NgordnetQueryType.HYPONYMS or NgordnetQueryType.ANCESTORS, respectively.

TASK

Modify your HyponymsHandler and the rest of your implementation to handle common ancestor queries in addition to hyponym queries.

Design Tips

As mentioned before, you should not need to copy-paste your code or do anything too drastic to handle this task. Consider how you can use the same data structures and methods from before to solve this problem, perhaps with a few tweaks.

Helper methods are your friends! If you find yourself writing similar code more than once, consider making a helper method that you can call from both places that does the common work for you.

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Deliverables and Scoring

For Project 2C, the only any helper classes. How from student to student

le is the HyponymsHandler.java file, in addition to e directly grading these classes, since they can vary

- Project 2B/C: Check
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- Project 2C Coding: 25 points Due April 1st
 - · HyponymsHandler wearth middes to the S
 - HyponymsHandler popularity-randomized: 30%, k!= 0
 - · HyponymsHandler Assignment Project Exam Help

In addition to Project 2C, you will also have to turn in your design document. This will be worth 5 points and it is due March 15th The design document of your project. It is important to think and ideate before coding. What we are looking for in the design document:

- Identify the data structures we have learned in the class that you will be using in your implementation.
- Pseudocode / general over provident of the provident of t

Your design document should be around 1 - 2 pages long. Design document will be mainly graded on effort, thought and completion.

Please make a copy of this template and submit to Gradescope.

Don't worry if you decide to change your design document after. You are free to do so! We want you to think about the implementation before coding therefore we require you to submit your design as the part of the project.

The token limiting policy for this project will be as follows: You will start with 8 tokens, each of which has a 24-hour refresh time.

Testing Your Code

We've provided you with two short unit test files for this project in the proj2c/tests directory:

TestOneWordKNotOHyponyms.java

TestCommonAncestors.java

If you need help figuring **Translation** ected outputs of your tests should be, you should use the two tools that we have the ting Started section.

Debugging Tips

- Use the small files while testing! This decreases the startup time to run Main.java and makes it easier to reason about the code. If you're running Main.java, these files are set in the first few lines of the habba. Estiliter, of file names are passed into the getHyponymsHandler method.
- You can run Main. jay with the debugger to proper different puts quick patter clicking the "Hyponyms" button, your code will execute with the debugger breakpoints will be triggered, you can use the variables window, etc.
- There are a lot of moving part to this project. So that are years along the line-by-line. Instead, narrow down which function/region of your code is not working correctly then search more closely in 1030 lines 19389476
- Check the FAQ for common issues and questions.

https://tutorcs.com Submitting Your Code

Throughout this assignment, we've had you use your front end to test your code. Our grader is not sophisticated enough to pretend to be a web browser and call your code. Instead, we'll need you to provide a method in the proj2c_testing.AutograderBuddy class that provides a handler that can deal with hyponyms requests.

When you ran git pull skeleton main at the start of this spec, you should have received a file called AutograderBuddy.java

Just like 2B, open AutograderBuddy.java and fill in the getHyponymsHandler method such that it returns a HyponymsHandler that uses the four given files. Your code here will probably be similar to your code in Main.java.

Now that you've created proj2c.testing.AutograderBuddy, you can submit to the autograder. If you fail any tests, you should be able to replicate them locally as JUnit tests by building on the test files above. If any additional datafiles are needed, they will be added to this section as links.

Optional Extra Features

Acknowledgeme

The WordNet part of thi Wordnet assignment at



bsely adapted from Alina Ene and Kevin Wayne's

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