NLPCC2023 Shared Task7

Chinese Essay Discourse Coherence Evaluation

Guideline

Hongyi Wu(1), Xinshu Shen(1), Man Lan(1), Yuanbin Wu(1), Xiaopeng Bai(2), Shaoguang Mao(3), Tao Ge(3), Yan Xia(3)

- (1. College of Computer Science and Technology, East China Normal University, Shanghai 200333;
- 2. Department of Chinese Language and Literature, East China Normal University, Shanghai 200333;
 - 3. Microsoft Research Asia, Beijing 100080;)

Contact: Hongyi Wu (hongyiwu@163.com)

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1. Background

In the scoring of the Chinese National College Entrance Examination (NCEE) and the Senior High School Entrance Examination, essay assessment is the most time-consuming and controversial task. While existing research has focused on language factors such as characters, words, and sentences, it has not explored the relationship between discourse coherence and text quality. The logical structure and coherence within an essay are essential for evaluation, but the lack of large-scale, high-quality discourse coherence evaluation data resources has hindered the development of AI essay grading. To address this issue, the CubeNLP laboratory of East China Normal University and Microsoft have constructed a Chinese essay coherence evaluation dataset called **LEssay**, which provides high-quality data resources and is significant for the development of automatic essay evaluation.

2. Task Overview

2.1 Track 1. Coherence Evaluation

2.1.1 Task Description

The concept of "coherence" is a fundamental aspect of effective language expression, particularly when it comes to organizing discourse structure. Coherence essentially refers to the seamless flow between sentences and the smooth transition of paragraphs, which plays a crucial role in ensuring that written communication is clear, concise, and easy to understand.

The chapter coherence scoring task is based on some of the data from LEssay and aims to measure the ability of current technology to detect coherence in the discourse structure of common essay topics. This evaluation also encourages the exploration of the role of information, such as the logical structure of a composition, in assessing coherence. In summary, coherence is not only an essential element of language expression, but also a critical factor in technological advancement.

2.1.2 Task Definition

Given a middle school student essay, annotators will assess its coherence on a three-level scale of excellent, moderate, and poor. A score of 2 indicates excellent coherence, 1 indicates moderate coherence, and 0 indicates incoherence.

To evaluate the coherence of an essay, two aspects should be considered:

1. The smoothness of logic: The content of the essay should have logical coherence, and the paragraphs or sentences should be closely connected and unfold in a certain logical order. Factors that can impact the smoothness of logic include improper use of related words and a lack of logical relationship between contexts.

2. The reasonableness of sentence breaks: Proper sentence breaks can help better express the author's intended meaning and make the text easier to read and understand. However, improper sentence breaks can make it difficult for the reader to understand the text, or even create ambiguity.

It is crucial to understand how coherence impacts the overall quality of an essay and how these two aspects significantly affect its coherence. Here are some examples of how coherence can be affected:

how coherence can be affected:			
错误类型	定义	文章示例	解释
逻辑不通顺	文章以下, 一章逻辑不可。 一章逻辑, 一章逻辑, 一章逻辑, 一章逻辑, 一章逻辑, 一章逻辑, 一章逻辑, 一章一章。 一章一章, 一章一章。 一章一章一。 一章一章一。 一章一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一章一。 一。 一。 一。 一。 一。 一。 一。 一。 一。 一。 一。 一。 一	漫步在阳光下的我们,也被阳光覆盖着,此时我们的心情随着阳光下的景物而愉悦。"更无法理解为什么会有泪水,但当我们孤独的一个人待在阳光之外时,我们何尝能回忆到那种愉悦,又流下了泪水。 阳光是什么?它可以是宇宙中天体放出了能量,也可以是一种性格特点,更可以是人们的生存寄托。	文使子部中关高出章对为中连关当章用用分使联亮。为应虽使接联中不橙标用词部以例的然"词词词关当色出不用部本与连",更,使联的高;当蓝分篇"接文这视用词句亮其的色标文"间章个作不
	辑关系。即使上文和下 文在单独表述时可以理 解其意义,但是它们彼 解其意义,没有意义一个意义 所然,无法形成一个意义 来体。需要间外, 是,仅仅是指它们共同的 主,仅仅是指它们共同的 时间,对 时间,对 时间,对 时间,对 时间,对 时间, 时间, 时间, 时间, 时间, 时间, 时间, 时间, 时间, 时间,	到了小学高年级阶段,书就读得越来越多了。到了初中阶段,书就读的越来多,到上越来越兴趣了。未来,到上高中、大学时期。书是要反复读且要理解含义,就更会有兴趣了,下次要少玩电子产品中的游戏,用上网搜资料,这是不必要的。做事是有时间的,大部分都不是一气呵成的。要有"少年强,则国强"的人生道路。	以当是要就了接释句示为的"书里,和说子例新为写复含有面文关而后系例,并且,趣该解的中间,就是是,她该解的中间,我是是一个"我们",是一个"我们",是一个"我们",是一个"我们",是一个"我们",是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们可以说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们",我们说是一个"我们说话",我们说是一个"我们说话",我们说话,我们说话,我们可以说话,我们说话,我们就说话,我们说话,我们说话,我们说话,我们说话,我们说话,我们说话,我们就说话,我们说话,我们说话,我们说话,我们说话,我们说话,我们说话,我们说话,我们

更为连贯。 断句不 断句不合理会影响文章 有一次我上学要迟到了。闷 以本段为例, 的连贯性和清晰度,表 合理 着头硬闯红灯。就在这时, 【有一次我上 现在以下两个方面: 一直粗糙的大手把我拉了回「学要迟到了】 来,我回头看,"胖哥"正怒 和【闷着头硬 过度使用标点符 视冲冲地瞪着我,我刚一开 闯红灯】之间 号。一些作者可能在句 口就被"胖哥"打断了。他严 存 在 因 果 关 子中频繁使用逗号、分 肃地对我说:"同学,你不 系,应该用逗 号等标点符号,导致句 能闯红灯, 你不知道有多危 号。 子结构不清晰,影响读 险啊ι 者理解。此外, 标点符 号的使用还需要符合语 法规则, 否则可能会产 傅雷对儿子傅聪的指导与教 在这段话中, 生误解或者歧义。 逗号的使用存 诲在《傅雷家书》中体现得 句子结构混乱。如 2. 淋漓尽致,他以直率而真诚 在一些问题。 果断句不当,在该断的 的语言, 教导傅聪要养成坚 应该将其中一 时候没有使用句号等符 韧的品格,不忘国家之本, 些逗号(灰色 号结束句子,或者过早 他以积极向上,不畏困难, 高亮部分)改 地使用了句号,可能导 踏实做人的家风, 培养出在 为分号或句 致句子结构混乱,从而 音乐界成绩骄人傅聪,即使 号,以使句子 影响读者对文章的整体 傅聪远在国外, 却仍受质朴 结构更加清 理解。此外, 句子结构 的家风所影响,并没有因他 晰。将灰色高 的合理性还需要考虑语 自己成绩的优异而骄傲放 亮部分所在的 义和语境等因素。 纵。由此可见,好家风是传 逗号改为句号 承性的。它影响着一代代 后, 句子被分 人,伴随一代代人成长,也 成了若干个更 在每代人手中的火炬下传承 简洁的子句, 不息。 每个子句使用

2.1.3 Expected Outputs

The submission should consist of a Python-based model, a development report that includes instructions for model usage, and prediction results of the testing datasets. It is crucial to ensure that the format of the model input is consistent with that of the testing datasets. To submit your work, please write the prediction results into a JSON

了合适的标点

符号来分隔。

file using the following format: [{"ID":(str),"CoherenceGrade":(int)}, ...], with the same sample order as the testing datasets.

Below is a sample input and output for your reference.

Input Sample:

```
JSON
{
    "ID": "468",
    "Title": "夏日晚风自宜人",
    "Text": [
    "那时一个相生共荣的小院,就在校篮球场旁。",
```

"历经一节班会课"开不开电风扇"的争吵,自习课上终于回归了平静。同桌轻轻拍了拍我说:"看黑板上写了什么?"我顺着看去,薄暮黄昏,散在黑板上,墨绿的,托出一行精致的白色粉笔字"夏日晚风自宜人,不妨出去走走"这是什么意思?一个高个的男生突然大嚷了一声"这是让我们把电风扇开到最大档吧!"无人回应。

"我们沿着沿着雪白的跑道,向前奔去。薄暮,暖黄的光穿过林立的教学楼,透过高大的篮球架,洒在了小院里,不伤花谢,不羡柳青,花柳为木,树生盎然,青叶在树梢上摇动,光影带来了最朴素真纯的生命风度,叶影婆娑间,绿起人间四月天。日暮落在那一小丛月季上,显得浓烈而又庄重,月季的影子被一旁的栅栏轻轻牵住,不时微微晃动。",

""好美"同桌惊讶的指着那树那花,他张开双臂,发丝被那日光携着向身后飘去。",

"那是什么,我问着自己,是柳暗花明,是惊人月季?不,是风;风引导着我们与自然,与世间万物交融。",

"在多少个日暮黄昏,我们倚在栏杆上说说笑笑,却意识不到那抹清凉;多少个日子,我们漫步在操场,金灿灿的枇杷果明明如耀眼宝万般晃动,我们却不自知。",

""夏日晚风凉,少年亦如斯"。",

这时, 同桌邀我出去走走, 我欣然应允。",

"小时候都渴望成为一棵树,长大才明白,人不能成为树,不是因为不能像树

```
一样高大,而是缺失树的干净、坚守、温暖的灵魂。风创造了千奇百怪的大自然,
铸就了一棵棵独一无二的树。树,都能发现并体现大自然的美,人却难以做到。",
"世间紧迫地需要一双发现美的眼睛,美,就在身边,就在大自然。",
"倾听草木的呼唤,学着做一棵向着阳光的树。"
]
```

```
JSON
{
    "ID": "468",
    "CoherenceGrade": 1
}
```

2.1.4 Training Datasets

We offer approximately 600 Chinese essays written by middle school students, of which 500 can serve as training sets and 100 as verification sets. Each data sample contains the title and content of the article. Participants are also welcome to utilize data from other sources, such as manual annotation or automatic annotation using models or tools, to enhance their training experience.

2.1.5 Testing Datasets

We offer a comprehensive collection of 5,000 Chinese essays that serve as our testing datasets. These valuable resources are made available to participants in the form of a JSON file that includes key information, such as the essay's ID, title, and text content in the format of [{"ID":"","Title":"","Text":[]} ...].

To ensure the highest standards of accuracy and quality, we meticulously select a portion of the data in the test set for review. This enables us to provide insightful feedback to participants and further refine their method.

2.1.6 Evaluation Metrics

This task employs precision (P), recall (R), and macro F1-score (F1) to evaluate the effectiveness of coherence identification. Precision is calculated by dividing the number of correctly identified coherence types by the total number of identified coherence types. Recall is calculated by dividing the number of correctly identified

coherence types by the total number of coherence types as labeled. F1-score is calculated by using the following formula: (2*precision*recall)/(precision+recall).

2.2 Track 2. Text Topic Extraction

2.2.1 Task Description

The coherence of discourse in an article is premised on the rational layout of its content. Whether it is in Chinese, English, or any other language, writing requires a central idea, and each paragraph is usually composed of a topic sentence that represents the central idea of the paragraph, as well as some developing sentences used to explain, describe, or argue the topic. The topic sentence of a paragraph is crucial and plays a guiding role in connecting all sentences in the paragraph. Writing an excellent topic sentence not only makes the article well-structured but also effectively explains the main theme of the article. Therefore, extracting the topic sentence is of vital importance in evaluating the quality of an article.

2.2.2 Task Definition

Given a middle school student essay, annotators need to identify the topic sentence for each paragraph and one main topic sentence for the whole essay.

2.2.3 Expected Outputs

The submission should consist of a Python-based model, a development report that includes instructions for model usage, and prediction results of the testing datasets. It is crucial to ensure that the format of the model input is consistent with that of the testing datasets. To submit your work, please write the prediction results into a JSON file using the following format: [{"ID":(str), "ParagraphTopic":(list), "Full-textTopic":(str)}, ...], with the same sample order as the testing datasets.

Please note that:

- 1) There may be some paragraphs without a clear topic sentence.
- 2) In general, the main topic sentence of the entire article is one of the paragraph topic sentences. However, due to the quality differences of the texts, there may be some articles that do not have a main topic sentence for the entire article.
- 3) Due to improper punctuation in some articles, the topic sentence of a paragraph or the main topic sentence of the entire article may not necessarily be a complete sentence that ends with a period.

In summary, participants should be aware of the above mentioned issues while reviewing and analyzing the texts. We encourage them to utilize their critical thinking skills and language proficiency to fully comprehend the contents and extract valuable insights.

Below is a sample input and output for your reference.

Input Sample:

```
JSON
{
    "ID": "3027",
    "Title": "学会"读"",
    "Text": [
```

"在生活中,人们把学习的人叫学者,把研究艺术人叫艺术爱好者,把做演讲演说多人叫演讲者。那么,一个读书人叫什么,没错,是读者。",

"其实"读者"是对读书人的一种赞誉,正因为这一点,所以读书之人不一定就 能成为一个合格的读者。要学会读书,才是一个读者。",

"读者,要学会读背景。一个真正喜欢读书人,是不会仅仅把全书看完一遍就了事了的。读书前,先把书的背景了解,可能读时会更能理解书中想表达的意思,比如说《儒林外史》一书,如果不了解作者当时所处的社会环境是那么地腐败黑暗,你会把这本书当一本好笑小说。确定,《儒林外夫》中吴敬梓的言辞十分白话,情节内容真的再有趣不过了,但这也主是吴敬梓想要达到的,他想用这些过分荒淡、好笑到人和事,反映出当时的社会是那么的可笑而更可悲啊!了解了书的背景,才能真正体现到书中的那种讽刺与作者的无奈。",

"读者,要学会思考。《论语》中道:"学而不思则罔",读书也是一种学习的过程,同样也需要读者对书进行思考和探究,很多书内容有些声,可能有时你还会对作者的观点有所不理解,甚至否认。但如果你在了解书背景的同时结合书中的内容加以深究,就会有不同的感受。就像《朝花夕拾》中鲁迅在《王倡会》的描绘的父亲形象,是那么的严厉,让人觉得鲁迅是在对自己的父亲表示讨厌,对父亲十分不喜爱,但你再以鲁迅所生的环境,想一想,你就会顿开茅塞,鲁迅这里并不是在怪自己的父亲,而是想通过这件事,表现出旧中国封建的思想教育方式抹杀了为孩子的天性。正就是思考的好处。".

"读者,更要品读。品读也可以说是复读。很多的人会对一些名著进行复读,品析内容。其实复读更有利于让对书产生理解与共鸣,古人言:"读书百遍,奇异自现"也正如此,每一遍读你都会有新的感悟。",

```
"其实这三种方式读书也同样可以运用于生活,生活中也需要这样认真的态度以面对。要学会做一个读者,也更要有才为读者后学习书中之道,做一个生活的享受者。"

]

}
```

```
【

"ID":"3027",
"ParagraphTopic":[

"那么,一个读书人叫什么,没错,是读者。",
"要学会读书,才是一个读者。",
"读者,要学会读背景。",
"读者,要学会思考。",
"读者,更要品读。",
"读者,更要品读。",
"要学会做一个读者,也更要有才为读者后学习书中之道,做一个生活的享受者。"

],
"Full-textTopic":"要学会做一个读者,也更要有才为读者后学习书中之道,做一个生活的享受者。"
}
```

2.2.4 Training Datasets

We offer approximately 100 Chinese essays written by middle school students, of which 50 can serve as training sets and 50 as verification sets. Each data sample contains the title and content of the article. Participants are also welcome to utilize data from other sources, such as manual annotation or automatic annotation using models or tools, to enhance their training experience.

2.2.5 Testing Datasets

We offer a comprehensive collection of 5,000 Chinese essays that serve as our testing datasets. These valuable resources are made available to participants in the form of a JSON file that includes key information, such as the essay's ID, title, and text content in the format of [{"ID":"","Title":"","Text":[]} ...].

To ensure the highest standards of accuracy and quality, we meticulously select a portion of the data in the test set for review. This enables us to provide insightful feedback to participants and further refine their method.

2.2.6 Evaluation Metrics

This task adopts accuracy to evaluate the effectiveness of extracting paragraph and overall themes in the text. The paragraph theme sentence accuracy (ParaAcc) is defined as the number of accurately identified paragraph theme sentences divided by the total number of paragraph theme sentences. The overall theme sentence accuracy (FullAcc) is defined as the number of accurately identified overall theme sentences divided by the total number of overall theme sentences. The comprehensive evaluation accuracy is calculated as 0.3 times the paragraph theme sentence accuracy plus 0.7 times the overall theme sentence accuracy.

2.3 Track 3. Paragraph Logical Relation Recognition

2.3.1 Task Description

Identifying the logical relations between paragraphs is an important task in natural language processing, especially in the fields of text understanding and information extraction. For example, correctly identifying the logical relations between paragraphs can help generate accurate and coherent summaries or answers in text summarization and question-answering systems. In student writing, identifying the logical relations between paragraphs can provide valuable insights into writing quality, coherence, and the ability to structure arguments and narratives. This task requires a deep understanding of the content and context of the text, as well as the ability to identify and interpret various language cues that indicate the logical relations between paragraphs. Therefore, this task aims to evaluate current technology's ability to recognize the logical relations between paragraphs in common essay topics among middle school students, based on given definitions and examples.

2.3.2 Task Definition

Given two paragraphs sorted in order from a composition, the annotator needs to determine the logical relationship between the two paragraphs based on the given definitions and examples of logical relationships. The definition and examples of logical relations are as follows:

逻辑关系 定义 例句	逻辑关系	定义	例句
--------------------	------	----	----

		段落 1	段落 2
共现关系	同一个共现关系可以连接两个以上平等的子句或句子,如并列关系中可以包括多个并列项。共现关系包括并列、顺承、递进、对比四个类别。	从天安门往里走,沿着一条笔直的大道穿过端门,就到了午门的前面。	走进午门,是一个宽 阔的广场。
反转关系	一篇章单位提出一个事单位提出的 明年 一年	我担心父亲有一天会垮下来。	然而,父亲的精力却很旺盛。
解说关系	后篇解整补词说系面关一在上描而接单位可意以也作系其对,位一或,列篇单进以思以些别类并说意位行进选单对补对进对充共:、系是基细总关则对外对进对充共:、系是基细总关则一、文追个解关方择后立之的;连全	科学家们提出了许多设想。	例如,在火星或者月球上建造移民基地。

	平等。另一方面,对 比顺承、递进序, 递进序, 递进序, 递进序, 解强 度加深 根 超 强		
主从关系	篇平则从也和句句整分括客件别章等,成系是句总分,来景因位在主从可,包将别将主主,以无含主视这从观假五位分。分主个和一者系论设个不,主,句子从个切包、条类	船,小小的船儿两头	我在小小的船里坐, 只看见闪闪的星星蓝 蓝的天。

2.3.3 Expected Outputs

The submission should consist of a Python-based model, a development report that includes instructions for model usage, and prediction results of the testing datasets. It is crucial to ensure that the format of the model input is consistent with that of the testing datasets. To submit your work, please write the prediction results into a JSON file using the following format: [{"ID":(str), "Relation":(str)}, ...], with the same sample order as the testing datasets.

Below is a sample input and output for your reference.

Input Sample:

```
JSON
{
```

```
"ID": "3027",
"paragraph1": {
    "pid":"355",
    "text":"在生活中,人们把学习的人叫学者,把研究艺术人叫艺术爱好者,把做演讲演说多人叫演讲者。那么,一个读书人叫什么,没错,是读者。"
    }
    "paragraph2": {
        "pid":"356",
        "text":"其实"读者"是对读书人的一种赞誉,正因为这一点,所以读书之人不一定就能成为一个合格的读者。要学会读书,才是一个读者。"
    }
}
```

```
JSON
{
    "ID":"3027",
    "Relation":"解说关系"
}
```

2.3.4 Training Datasets

We offer approximately 1200 paragraph pairs, of which 1000 can be used as training sets and 200 as verification sets. Each data sample contains the text content of two paragraphs and their corresponding paragraph IDs. Please note that the dataset may contain paragraph pairs without any logical relationship.

Furthermore, participants are welcome to utilize data from other sources, such as manual annotation or automatic annotation using models or tools, to enhance their training experience. With these additional resources, participants can deepen their understanding of language composition and further hone their skills in analyzing and connecting ideas between paragraphs.

2.3.5 Testing Datasets

We offer a comprehensive collection of 5,000 Chinese essays that serve as our testing datasets. These valuable resources are made available to participants in the form of a JSON file that includes key information, such as the essay's ID and paragraph pairs in the format of [{"ID": "", "paragraph1": {"pid":"", "text": ""}, "paragraph2": {"pid":"", "text": ""}} ...].

To ensure the highest standards of accuracy and quality, we meticulously select a portion of the data in the test set for review. This enables us to provide insightful feedback to participants and further refine their method.

2.3.6 Evaluation Metrics

The evaluation of the recognition performance of logical relationships between paragraphs in this task will use precision (P), recall (R), and macro-F1 score (F1-score, F1). Precision is calculated as the number of correctly identified logical relationship types divided by the total number of identified logical relationship types. Recall is calculated as the number of correctly identified logical relationship types divided by the total number of annotated logical relationship types. F1-score is calculated as (2*precision*recall)/(precision+recall).

2.4 Track 4. Sentence Logical Relation Recognition

2.4.1 Task Description

In the assessment of writing, the logical relationships between sentences are one of the important factors for evaluating the quality of students' compositions. The logical relationships between adjacent sentences in a composition are essential for evaluating the fluency, coherence, and overall logical structure of the composition. Correct logical relationships between sentences can make the structure of the composition clear, promote the development of ideas, and make it easier for readers to understand the author's point of view and argument. The task of evaluating the logical relationships between sentences usually includes analyzing and classifying adjacent sentences in student compositions, evaluating the logical structure and coherence between sentences based on their relationships, such as causal relationships, comparative relationships, chronological relationships, etc. To evaluate the logical relationships between sentences in student compositions, a deep understanding of natural language processing techniques is needed, combined with an understanding and analysis of the text content, to improve the accuracy and objectivity of the evaluation.

2.4.2 Task Definition

Given two sentences from an essay that are ordered sequentially, the annotator needs to determine what type of logical relation exists between them based on given definitions and examples. The definition and examples of logical relations are as

follows:

	逻辑 关 定义	例句	
系		句子 1	句子 2
并列关系	描述同一事件的几个方面、相关的几件事情况,在明节的情况,在明节的情况,并存不可以对立,以明中的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	我的老爸就像一只鸡,每天都很早起,然后上班,每次他都很早起,早饭就吃两口,再上班,而且很晚睡觉。	我就像一个变色龙,总是变脸,我有时不开心的时候就板着脸,我一开心就一直微笑,我伤心的时候就外表,我的衣服也会变哦。
顺系	篇在步上包两包事件系后位意位同物同章时骤的括种括件属。关的调的一,的单间、先顺情同,于由系顺换主个也或位、逻后序况时同,于于,序。体人可事之空辑顺和;发时并存篇不篇可人以物间间事序逆但生的列在章可章以或是。存、理,序不的事关先单随单是事不	我看见女娲先杀死了一只大乌龟,用它的腿撑着天空。	接着,杀死了一只黑龙。
递 进 关	后一篇章单位在 数量、质量、范 围、时间等方面 比前一篇章单位 更进一层,强调 程度的增强加	图书馆里有各种各样的图书,种类数也数不清。	甚至连英文书都有呢。

	深顺换比为序加系前进 一篇第一点,一,深则者竟,一,深则者,一,深则者,强在,,是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是		
对比关系		苹果酸甜可口,口感脆嫩,适合生食和烹饪。	而橙子则酸甜适中,多 汁而且富含维生素 C, 适合榨汁和制作甜点。
让步关系	某出实步假另述或语事令所,有人并且的第一个对目的第一个对时,是是是一个对方,是是是是一个对方,是是是是一个,我反。的是是是一个,我反。的是是是是一个,我反。的是是是是一个,我反。的是是是是一个,我反	她虽然不用功学习。	考试却及格了。
转 折 关	某一篇章单位提出一个客观事实,另一篇章单	月亮发出的黄色光芒,把 周围的几朵灰灰的云也照 黄了。	但又仔细一看,好像月 亮也不是纯黄色的,有 黑乎乎的东西在上面。

	位叙述一个与之相反或相对的情况。语序上,转折部分一般在后,有时也会倒装变化。		
泛化关系	后对的泛间序细相包体述似主制一前概化不,化关括而等,要约章章总章调转。接"言,泛依位单结单换变与成"上化系义是位和位顺为之分总所类也的是位和位顺为之分总所类也的	为了达到这个目的,他们 讲究亭台轩榭的布局,讲 究假山池沼的配合,讲究 花草树木的映衬,讲究近 景远景的层次。	完美的图画而存在,决
细化关系	后对的括说篇调转系连这如等型系没一前细举明章换变。接"、:相在有篇篇描、补位序为与成"也与,数示单章述解充间,泛相分"就其细情成位单,释等不否化关包"是他化况分是位包、;可则关的括例"类关下,	我的老妈就像一个母老虎,我一不听话她就发脾气。	有一次,我没有写完作业她就发脾气,说:"你怎么还没写完啊!。"

	通常表现为词义或句义的关联。		
客观 因果关系	某明章原果观结不有时时句篇因位导两实的定次因果有,说致均原后但分主定处为为原后但分主主。	我查了书籍,原来农历十五、十六都为满月。	所以今天的月亮也是最大最圆的。
背系	事件、地点、历	迪士尼乐园是人们向往的地方,也是周末玩耍的好去处。	

	先标注其他关系;只有单纯的环境描写才算作背景关系。语景 计景关系。语为语常,背景部分容之前。		
特定条件关系	某出另明据果条足格就必的有"则以件论"等一特一以推。件条式…要连…除…是,…管格章的章条断中以,只;件成才…等遍使也单条单件出,包代要可,分;遍度…也也件位为的特括表…以常有也性""…是,说依结定充的…是用只、否可条无、"是	只有坚持锻炼。	才会有好身体。
假设条件关系	某一篇章单位提出虚拟性条件,另一篇章单位说明。	如果我们好好学习。	就能取得好成绩。

主观推 论关系	某明一由观因的的的实前后之是一事篇此结果是结。依,;分句篇依单断;系推是结。依,;分句单据位出与所论是上往结有论心位,说的客不得主,往论主通。说另明主观同到观事在在次常	去之前一定要提前预约!	不然你可能会排两个小时的队!
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2.4.3 Expected Outputs

The submission should consist of a Python-based model, a development report that includes instructions for model usage, and prediction results of the testing datasets. It is crucial to ensure that the format of the model input is consistent with that of the testing datasets. To submit your work, please write the prediction results into a JSON file using the following format: [{"ID":(str), "Relation":(str)}, ...], with the same sample order as the testing datasets.

Below is a sample input and output for your reference.

Input Sample:

```
JSON
{
    "id": "6027",
    "sentence1": {
        "sid":"355",
        "text":"读书前,先把书的背景了解,可能读时会更能理解书中想表达的意
思。"
        }
        "sentence2": {
```

```
"sid":"356",
"text":"比如说《儒林外史》一书,如果不了解作者当时所处的社会环境是那么地腐败黑暗,你会把这本书当一本好笑小说。"
}
```

```
JSON
{
    "id": "6027",
    "Relation": "细化关系"
}
```

2.4.4 Training Datasets

We offer approximately 2400 sentence pairs, of which 2000 can be used as training sets and 400 as verification sets. Each data sample contains the text content of two paragraphs and their corresponding paragraph IDs. Please note that the dataset may contain paragraph pairs without any logical relationship.

Furthermore, participants are welcome to utilize data from other sources, such as manual annotation or automatic annotation using models or tools, to enhance their training experience. With these additional resources, participants can deepen their understanding of language composition and further hone their skills in analyzing and connecting ideas between paragraphs.

2.4.5 Testing Datasets

We offer a comprehensive collection of 10,000 Chinese essays that serve as our testing datasets. These valuable resources are made available to participants in the form of a JSON file that includes key information, such as the essay's ID and sentence pairs in the format of [{"ID": "", "sentence1": {"sid":"", "text":""}, "sentence2": {"sid":"", "text":""}} ...].

To ensure the highest standards of accuracy and quality, we meticulously select a portion of the data in the test set for review. This enables us to provide insightful feedback to participants and further refine their method.

2.4.6 Evaluation Metrics

In this task, precision (P), recall (R), and Macro-F1 value (F1-score, F1) are used to evaluate the recognition performance of logical relationships between sentences.

Precision = the number of correctly identified logical relationships of a certain type / the total number of identified logical relationships of that type.

Recall = the number of correctly identified logical relationships of a certain type / the total number of logical relationships of that type annotated in the dataset.

F1-score = (2 * precision * recall) / (precision + recall).