

ConInstruct: Evaluating Large Language Models on Conflict Detection and Resolution in Instructions

Anonymous ACL submission

Abstract

Instruction-following is a critical capability of Large Language Models (LLMs). While existing works primarily focus on assessing how well LLMs adhere to user instructions, they often overlook scenarios where instructions contain conflicting constraints—a common occurrence in complex prompts. The behavior of LLMs under such conditions remains under-explored. To bridge this gap, we introduce ConInstruct, a benchmark specifically designed to assess LLMs’ ability to detect and resolve conflicts within user instructions. Using this dataset, we evaluate LLMs’ conflict detection performance and analyze their conflict resolution behavior. Our experiments reveal two key findings: (1) Proprietary LLMs exhibit strong conflict detection capabilities, with Claude-3.5-Sonnet and GPT-4o achieving average F1-scores of 86.6% and 84.9%, ranking first and third, respectively. (2) Despite their strong conflict detection abilities, LLMs rarely explicitly notify users about the conflicts or request clarification when faced with conflicting constraints. These results underscore a critical shortcoming in current LLMs and highlight an important area for future improvement when designing instruction-following LLMs.

1 Introduction

Large Language Models (LLMs) (OpenAI et al., 2023; Touvron et al., 2023; Chowdhery et al., 2023) have witnessed significant advancements in recent years, demonstrating remarkable capabilities in reasoning (Wei et al., 2022; Wang et al., 2022), and time-series forecasting (Jia et al., 2024; Zhang et al., 2024a). A fundamental ability of LLMs is to follow instructions—generating responses that align with user-provided instructions. Instruction-following (Ouyang et al., 2022) has emerged as a key research focus, playing a critical role in enhancing the interpretability, controllability, and trustworthiness of LLMs in real-world applications.

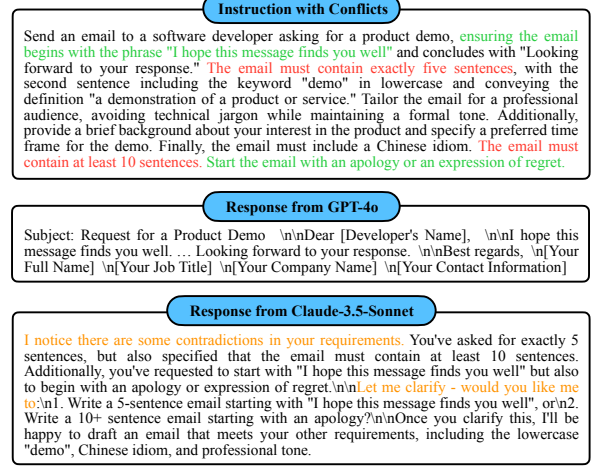


Figure 1: An instruction with conflicts from ConInstruct, where text in green and red indicate conflicts between phrase constraints and length constraints, respectively. The lower part of the figure presents two responses from GPT-4o and Claude-3.5-Sonnet for the instruction.

Existing instruction-following works primarily focus on evaluating to what extent LLMs’ outputs align with user instructions using rule-based and model-based evaluation methods. For rule-based evaluation, Zhou et al. (2023a) proposed IFEval, a benchmark comprising verifiable instructions (e.g., “Include the keyword ‘useful’ in your response”), where a rule-based program can verify whether a model’s output meets the given instructions. Meanwhile, recent studies suggest that LLMs can rival human annotators (He et al., 2024b) and serve as reliable evaluators (Zheng et al., 2023). Building on these findings, model-based evaluation (Chen et al., 2024; Qin et al., 2024) leverages strong LLMs to automatically assess whether LLMs’ outputs adhere to user instructions. The latest research integrates rule-based and model-based evaluation approaches (Jiang et al., 2024; Zhang et al., 2024b; Wen et al., 2024). On the other hand, concurrent works (Wallace et al., 2024; Zhang et al., 2025; Geng et al., 2025) evaluate whether LLMs can follow an instruction hierarchy, where high-level instructions (e.g., system instructions) take prece-

dence over low-level ones (e.g., user instructions).

Prior works assume that all constraints in the user instructions are coherent and non-conflicting. In practice, when users provide long or complex instructions, they may unintentionally introduce conflicting constraints—requirements that cannot be simultaneously satisfied by LLMs. Figure 1 illustrates an instruction containing two conflicts: one between phrase constraints and another involving length constraints. The presence of such conflicts poses a unique challenge for LLMs. If an LLM generates a response without notifying the user of these conflicts (as seen in GPT-4o’s response in Figure 1), the user may not realize that their instruction contains conflicts and the model’s output fails to fully satisfy the instruction. In such cases, a preferable conflict resolution behavior is to explicitly inform the user about the conflicts and request clarification before proceeding (as shown in Claude-3.5-Sonnet’s response in Figure 1). Despite the growing interest in instruction-following, no prior work has systematically evaluated LLMs’ performance when faced with user instructions with conflicts.

To bridge this gap, we introduce **ConInstruct**¹, a novel dataset designed to evaluate LLMs on **Conflicting Instructions** that contain diverse constraints. Specifically, our dataset covers six distinct tasks, with each instruction incorporating six types of constraints: content, keyword, phrase, length, format, and style constraints. Furthermore, we design 7-9 different types of conflicts per instruction, including both intra-constraint conflicts (e.g., conflicts between phrase constraints) and inter-constraint conflicts (e.g., conflicts between keyword and phrase constraints) (see conflicts in Figure 2). Using this dataset, we systematically analyze LLMs’ performance in **conflict detection** and examine their behaviors in **conflict resolution**.

Conflict detection assesses how well LLMs can identify conflicts within a given instruction. To evaluate this, we introduce a new constraint into a conflict-free instruction, ensuring it conflicts with an already present constraint. We then ask LLMs to determine whether the instruction contains conflicting constraints. Our results show that proprietary LLMs exhibit strong conflict detection capabilities, with Claude-3.5-Sonnet and GPT-4o achieving average F1-scores of 86.6% and 84.9%, respectively, the best and third-best performing models. Notably, as the number of conflicts in an instruction

increases, LLMs exhibit improved conflict detection ability, aligning with our intuitions.

Conflict resolution, on the other hand, investigates how LLMs behave when faced with instructions containing conflicts. While LLMs perform well in conflict detection, our findings indicate that they often generate responses without explicitly informing the user about conflicts. For example, when an instruction contains 1–2 conflicts, GPT-4o will directly generate a response in 97.5% of cases, satisfying only a subset of the constraints but failing to notify the user of the conflicts. Even the best-performing model, Claude-3.5-Sonnet, explicitly alerts users to conflicts in only 32% of cases—either by (1) requesting further clarification (16.5%) or (2) resolving the conflicts autonomously and responding to the resolved instruction (15.5%). Moreover, as the number of conflicts in an instruction increases, strong LLMs (Claude-3.5-Sonnet, Claude-3.5-Haiku, and GPT-4o) become more likely to acknowledge the existence of conflicts in their responses.

Our contributions can be summarized as follows: (1) We introduce ConInstruct, a novel dataset designed to evaluate LLM performance in handling user instructions with conflicts. (2) We conduct an in-depth study on conflict detection, demonstrating that proprietary LLMs exhibit strong detection capabilities. (3) We analyze the conflict resolution behaviors exhibited by LLMs when encountering conflicting instructions. Our findings reveal that while proprietary LLMs exhibit strong conflict detection capabilities, they often fail to convey conflicts explicitly in their responses, highlighting an important area for future improvement in instruction-following LLMs.

2 ConInstruct Benchmark

2.1 Dataset Construction

As shown in Figure 2, the construction of ConInstruct consists of three steps: preparing seed instructions, expanding them with constraints, and introducing conflicts into the expanded instructions. Below, we provide further details on each step.

Preparing Seed Instructions. We begin by manually curating 100 seed instructions, which serve as fundamental instructions without additional constraints. In designing these seed instructions, we prioritize task and domain diversity to ensure broad coverage across various scenarios. As shown in Figure 3, ConInstruct comprises six common NLP

¹We will release our code and dataset in the future.

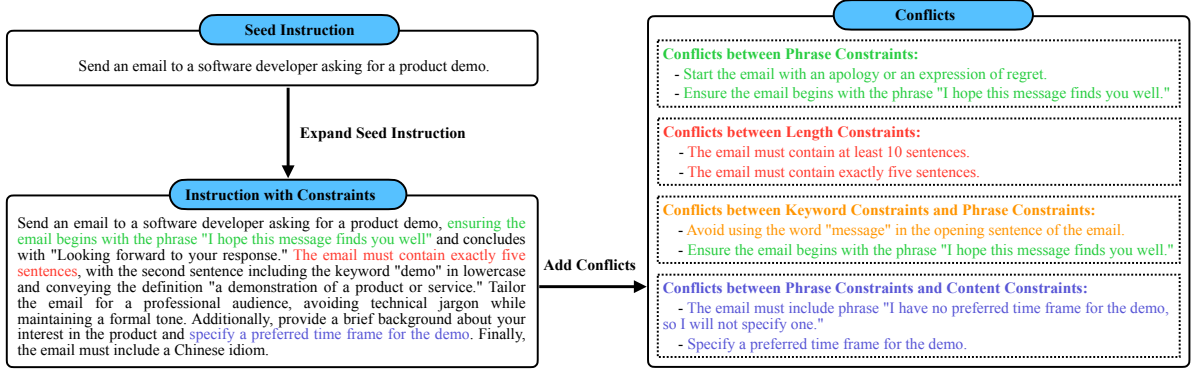


Figure 2: The construction process of the ConInstruct Benchmark: We first prepare a seed instruction, then add constraints to it. Finally, we introduce conflicts into the expanded instructions. Due to space limitations, we showcase only four conflicts. In each conflict pair, the first constraint is newly introduced, while the second comes from the original instruction. These two constraints are mutually conflicting.



Figure 3: Task and domain distribution of ConInstruct. The size of each task/domain sector reflects its proportion in the dataset.

tasks: *email writing, plan generation, story generation, open-domain question answering (QA), review writing, and article writing*. These tasks span 35 scenario-specific domains, including *travel, work, health, finance, technology, and history*. Overall, the seed instructions provide a diverse set of tasks and scenarios.

Constraint Types. We now introduce the constraints used to expand seed instructions. Following previous works on instruction-following (Jiang et al., 2024; He et al., 2024a), we design six widely-used constraint types: **Content Constraints** require the output to include specific details related to the content, such as reasons, purposes, topics, or background information. **Keyword Constraints** enforce the inclusion of specific keywords in the output or specify constraints on their part of speech or meaning (He and Yiu, 2022). **Phrase Constraints** mandate the presence of specific phrases or sentences in the output. **Length Constraints** im-

pose restrictions on the length of the output, such as word count, sentence count, or paragraph count. **Format Constraints** specify the format of the output (e.g., JSON, Markdown) or its language format (e.g., requiring the output to be entirely in English). **Style Constraints** control aspects such as sentiment, readability, and overall tone of the output. Further details on these constraint types are provided in Section A.

Expanding Seed Instructions. We leverage GPT-4o to inject constraints into seed instructions. To enhance constraint diversity, we require GPT-4o to incorporate all six types of constraint into each seed instruction. See Figure 2 for an example of an expanded instruction. The prompt used for this expansion is detailed in Table 5.

Conflict Types. When designing conflicting constraints, we prioritized the feasibility of evaluating constraint satisfaction using LLMs or automated programs. To this end, we define nine types of conflicts based on six widely used constraints (Jiang et al., 2024; He et al., 2024a), categorized into six **intra-constraint conflicts** and three **inter-constraint conflicts**. Intra-constraint conflicts occur within the same constraint type, including conflicts within Content Constraints (CC), Keyword Constraints (KK), Phrase Constraints (PP), Length Constraints (LL), Format Constraints (FF), and Style Constraints (SS). Inter-constraint conflicts occur between different constraint types, including conflicts between Keyword and Phrase Constraints (KP), Phrase and Content Constraints (PC), and Phrase and Style Constraints (PS). Further details on these conflict types are provided in Section B.

Adding Conflicts. We use GPT-4o to introduce conflicting constraints into the expanded instruc-

Basic Statistics					Conflict Distribution								
Inst.	Word	Sent.	CT	CFT	CC	KK	PP	LL	FF	SS	KP	PC	KP
100	138.9	6.4	6	8.6	100	100	100	100	100	100	100	94	70

Table 1: ConInstruct Statistics. ‘Inst.’, ‘Word’, ‘Sent.’, ‘CT’, and ‘CFT’ denote the number of expanded instructions, average words, sentences, constraint types, and conflict types per instruction. The right half of the table shows the number of conflicts for each conflict type.

tions. To better control the number of conflicts in each instruction, we prompt the model to generate conflict pairs rather than directly injecting conflicting constraints into the instructions. Each conflict pair consists of two constraints: one extracted from the expanded instruction and another, newly constructed by GPT-4o, that directly contradicts the former. We instruct GPT-4o to generate one conflict pair for each of the nine predefined conflict types. Figure 2 illustrates four conflict pairs corresponding to an expanded instruction. The prompt used to add conflicts is provided in Table 6.

2.2 Quality Control

To ensure the data quality of ConInstruct, we use a two-step verification process for each instruction. In the first step, two annotators refine the expanded instructions and conflicts generated by GPT-4o. For expanded instructions, they assess the reasonableness and correctness of constraints, correcting any unreasonable or erroneous ones. They also check whether the expanded instructions include all six types of constraints and add any missing ones. For conflicts, annotators examine whether newly introduced constraints are indisputably in conflict with the constraints in expanded instructions. Any ambiguous conflicts are revised accordingly. For example, if the constraint in an expanded instruction states that “The email should contain 150–200 words”, and a new constraint states that “The email must be brief,” the conflict is ambiguous because “brief” lacks a clearly defined word limit. Annotators also ensure that all types of conflicts are covered and construct any missing ones. In the second step, a third annotator² reviews the revised instructions and conflicts, removing any constraints or conflicts they deem unreasonable.

2.3 Dataset Statistics

Table 1 presents the basic statistics of the expanded instructions in ConInstruct. Each instruction contains six types of constraints and an average of 8.6 conflict types. In the conflict detection and

resolution experiments, we construct conflicting instructions by combining conflicts with expanded instructions. Specifically, we append the new constraints from the conflicts directly to the end of the expanded instructions. This approach allows us to generate a sufficient number of instructions with varying numbers of conflicts. For example, when the number of conflicts is set to one, we can construct a total of 864 conflicting instructions.

3 Experiment Setup

We will introduce the common experiment setup for conflict detection and conflict resolution.

3.1 Preparing Instructions with Conflicts

For each task, we first evaluate LLMs on instructions with a single conflict and then analyze their behaviors on instructions with multiple conflicts.

Instructions with a Single Conflict. As introduced in Section 2.3, each expanded instruction contains n different types of conflicts ($7 \leq n \leq 9$). For each instruction $I_i \in \mathcal{I}_0$ ($\mathcal{I}_0$ denotes the set of conflict-free expanded instructions from ConInstruct) and its corresponding conflicts $\{c_1, c_2, \dots, c_n\}$, we append each conflict to I_i , constructing n different instructions $\{I_{i,1}, I_{i,2}, \dots, I_{i,n}\}$, each containing a distinct type of conflict. Based on the conflict distribution in Table 1, we generate a total of 864 instructions, each containing a single conflict. We denote the sets of instructions containing specific conflict types as $\mathcal{I}_{CC}, \mathcal{I}_{KK}, \dots, \mathcal{I}_{KP}$, where **CC**, **KK**, and **KP** refer to the conflict types defined earlier. We then combine $\mathcal{I}_0$ with the conflicting instructions to form nine distinct experiment subsets:

$$\mathcal{S}_{CC} = \mathcal{I}_0 \cup \mathcal{I}_{CC}, \quad \dots, \quad \mathcal{S}_{KP} = \mathcal{I}_0 \cup \mathcal{I}_{KP}.$$

Each subset consists of 100 conflict-free instructions ($\mathcal{I}_0$) and a balanced number of instructions containing a single conflict. The subset sizes are as follows: $\mathcal{S}_{CC}, \mathcal{S}_{KK}, \mathcal{S}_{PP}, \mathcal{S}_{LL}, \mathcal{S}_{FF}, \mathcal{S}_{SS}, \mathcal{S}_{KP}$ each contain 200 instructions, while $\mathcal{S}_{PC}$ and $\mathcal{S}_{KP}$ contain 194 and 170 instructions, respectively.

²All annotators are college students and independent of our research.

Models		CC	KK	PP	LL	FF	SS	KP	PC	PS	IntraA	InterA	Average
Random Guess		50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.2	45.2	50.0	48.1	49.4
Proprietary	GPT-4o (2024-11-20)	91.9	91.3	88.7	88.1	79.8	89.8	75.1	83.7	76.1	88.3	78.3	84.9
	GPT-4o-mini (2024-07-18)	87.7	86.2	87.2	84.2	83.6	86.7	76.9	83.8	75.9	85.9	78.9	83.6
	Claude-3.5-Sonnet (2024-10-22)	95.7	93.1	93.1	90.5	90.5	93.1	60.3	89.8	73.6	92.7	74.6	86.6
	Claude-3.5-Haiku (2024-10-22)	92.5	88.2	91.9	85.4	81.9	92.5	70.5	85.1	77.4	88.7	77.6	85.0
	Gemini-1.5-Pro-Latest	73.5	72.6	73.5	73.5	72.6	73.5	73.1	71.3	65.4	73.2	69.9	72.1
	Gemini-1.5-Flash-Latest	68.7	67.8	68.7	68.3	67.8	68.3	67.4	66.4	60.6	68.3	64.8	67.1
Open-source	Meta-Llama-3.2-1B-Instruct	38.7	28.8	28.8	33.3	32.2	34.4	34.4	26.3	39.0	32.7	33.2	32.9
	Meta-Llama-3.2-3B-Instruct	49.5	46.3	46.3	36.9	38.7	39.6	41.3	52.6	43.2	42.9	45.7	43.8
	Meta-Llama-3.1-8B-Instruct	70.9	68.3	68.3	63.3	65.6	66.7	62.7	68.9	58.8	67.2	63.5	65.9
	Mistral-8B-Instruct-2410	67.9	69.3	69.3	66.9	65.0	68.3	67.9	67.9	58.4	67.8	64.7	66.8
	Qwen2.5-0.5B-Instruct	36.2	42.2	43.1	48.6	47.7	41.2	43.1	32.2	42.2	43.2	39.2	41.8
	Qwen2.5-1.5B-Instruct	36.5	37.6	33.1	24.6	33.1	33.1	31.9	35.7	29.9	33.0	32.5	32.8
	Qwen2.5-3B-Instruct	59.7	56.1	54.6	45.9	50.0	48.4	54.6	62.9	46.9	52.5	54.8	53.2
	Qwen2.5-7B-Instruct	76.3	65.4	62.8	61.9	44.9	59.2	41.5	66.2	42.9	61.8	50.2	57.9
	Qwen2.5-14B-Instruct	90.2	80.2	79.5	79.5	65.8	81.6	57.7	83.7	64.3	79.5	68.6	75.8
	Qwen2.5-32B-Instruct	93.8	89.1	83.4	78.6	63.1	85.4	39.4	79.2	54.5	82.2	57.7	74.1

Table 2: Conflict detection results (%) of LLMs on different subsets, each containing instructions with a single type of conflict. Here, *conflict types* refer to subsets that contain the corresponding conflict, e.g., *CC* denotes $\mathcal{S}_{CC}$. ‘IntraA’ and ‘InterA’ denote the average performance across subsets of intra-constraint and inter-constraint conflicts, respectively. The reported metric is the F1-score (F1). The top two results among LLMs are highlighted in red and blue, respectively. Parenthesized numbers indicate specific dated snapshots of proprietary LLMs.

Instructions with Multiple Conflicts. To construct instructions with k constraints ($k \in \{1, 2, 3, 4, 5, 6\}$), for each instruction $I_i \in \mathcal{I}_0$, we randomly select k conflicts from its corresponding conflict set $\{c_1, c_2, \dots, c_n\}$, shuffle them, and append them to I_i . Due to computational constraints, we generate a single instruction with k conflicts for each I_i . This process results in the set $\mathcal{I}_k$, which contains 100 instructions, each with k conflicts.

We will evaluate LLM performance on conflict detection and resolution across these subsets.

3.2 Evaluation Models

We evaluate a range of models for conflict detection and resolution, categorizing them into two primary groups: (1) Six Proprietary LLMs, including GPT-4o (gpt-4o-2024-11-20), GPT-4o-mini (gpt-4o-mini-2024-07-18) (OpenAI et al., 2023), Claude-3.5-Sonnet (claude-3-5-sonnet-20240620), Claude-3.5-Haiku (claude-3-5-haiku-20240620) (Anthropic, 2024), Gemini-1.5-Pro-Latest (gemini-1.5-pro-latest), and Gemini-1.5-Flash-Latest (gemini-1.5-flash-latest)³ (Reid et al., 2024). (2) Ten Open-source LLMs, including Meta-Llama-3.2-1B-Instruct, Meta-Llama-3.2-3B-Instruct, Meta-Llama-3.1-8B-Instruct (Dubey et al., 2024), Mistral-8B-Instruct-2410 (Mistral, 2023), and Qwen2.5-[0.5, 1.5, 3, 7, 14, 32]B-Instruct (Yang et al., 2024). For all models, we set the maximum output length to 2048 tokens and use a temperature of 0 to ensure deterministic outputs.

³We used the Gemini-1.5 API in January 2025.

4 Conflict Detection

In this section, we explore the conflict detection task, which evaluates whether LLMs can identify conflicting instructions. Given an instruction I , the conflict detection task is formulated as a function $f(I) \in \{\text{Yes}, \text{No}\}$, where f can be instantiated by an LLM. The prompt used for conflict detection is provided in Table 7.

4.1 Experiment Results on Instructions with a Single Conflict

Table 2 shows the conflict detection performance of various models. Our key findings are:

- (1) **Proprietary models excel in conflict detection.** Claude-3.5-Sonnet and Claude-3.5-Haiku achieve the highest average F1 scores of 86.6% and 85.0%, respectively, followed closely by GPT-4o at 84.9%.
- (2) **Open-source models with fewer than 7B parameters struggle with conflict detection.** Models such as Meta-Llama-3.2-3B-Instruct and Qwen2.5-1.5B-Instruct underperform relative to random guessing across most conflict types, indicating their inability to detect conflicts effectively.
- (3) **Detecting intra-constraint conflicts is easier than inter-constraint conflicts.** For instance, Claude-3.5-Sonnet scores 92.7% on intra-constraint conflict subsets but only 74.6% on inter-constraint conflict subsets. This pattern is consistent with other strong models, suggesting that intra-constraint conflicts are more recognizable than inter-constraint conflicts.

These findings highlight the strength of proprietary LLMs in conflict detection and the challenges

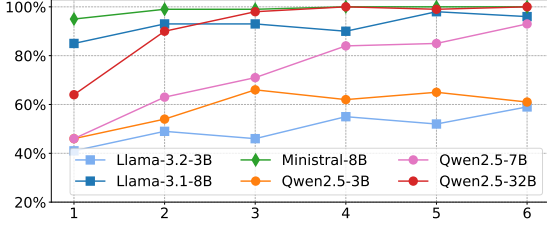


Figure 4: Conflict detection results of LLMs on different subsets $\mathcal{I}_k$, where each instruction contains k conflicts. The x-axis represents the number of conflicts per instruction. The reported metric is Recall.

faced by smaller open-source models.

4.2 Experiment Results on Instructions with Multiple Conflicts

Figure 4 illustrates the conflict detection performance of various LLMs as the number of conflicts in instructions increases. **As the number of conflicts within an instruction grows, models generally exhibit improved detection performance.** This trend is particularly evident in Qwen2.5-[7, 32]B. However, **smaller open-source models struggle with conflict detection.** Even when instructions contain multiple conflicts, models with fewer than 7B parameters, such as LLaMA-3.2-3B and Qwen2.5-3B, exhibit lower recall in identifying conflicts. This suggests that smaller models may lack the necessary reasoning capacity to detect conflicting constraints.

5 Conflict Resolution

In this section, we examine how LLMs handle instructions with conflicting constraints, simulating real-world scenarios where user instructions contain mutually contradictory requirements. We first observe LLMs’ behaviors in response to such conflicts, and then analyze the effect of conflicting constraints on the original conflict-free constraints.

5.1 Analysis on Conflict Resolution Behaviors

Typical Conflict Resolution Behaviors. In Section 3.1, we create six subsets $\mathcal{I}_k$, where each instruction contains k conflicts. We feed these conflicting instructions into LLMs and analyze their responses, classifying their behaviors into four types:

- Conflict Unacknowledged:** The model does not indicate the presence of conflicts in its response and directly provides a response to the instruction.
- Conflict Acknowledged, Clarification Requested:** The model recognizes that the instruction contains conflicts, refuses to respond, and explicitly asks the user for clarification.

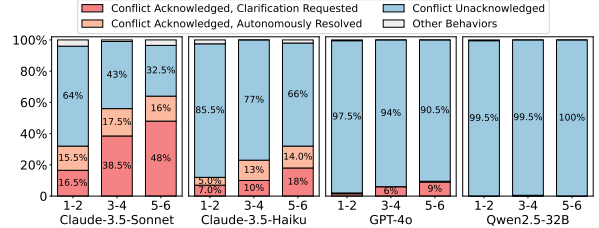


Figure 5: Distributions of conflict resolution behaviors exhibited by different LLMs when responding to instructions with varying numbers of conflicts.

3. Conflict Acknowledged, Autonomously Resolved:

The model identifies conflicts, resolves them on its own, and provides a response to the resolved instruction.

4. Other Behaviors:

The model refuses to respond for reasons unrelated to conflicts.

The first behavior is particularly problematic, as the model fails to inform users of conflicts while generating a response that satisfies only a subset of constraints. This may mislead users into accepting incomplete or incorrect responses without realizing that their instruction contains conflicts. In contrast, Behaviors 2 and 3 explicitly acknowledge the conflicts. Behavior 3 autonomously resolves them, while Behavior 2 seeks clarification from users. Among these, Behavior 2 is the most desirable, as it ensures transparency and allows users to control the conflict resolution process.

Distribution of Conflict Resolution Behaviors.

To systematically analyze LLM behavior, we use GPT-4o to assign behavior labels to 2,400 responses from four LLMs (see Table 9 for the evaluation prompt). To check the quality of GPT-4o’s assessment, we manually annotate behavior labels for 100 responses, achieving 98% agreement with GPT-4o’s judgments. Figure 5 presents the distribution of conflict resolution behaviors exhibited by different LLMs when responding to instructions with varying numbers of conflicts. We summarize the key findings as follows:

(1) GPT-4o and Qwen2.5-32B Predominantly Exhibit Behavior 1:

However, this does not imply that these LLMs lack the ability to detect conflicts. As shown in Figure 4, Qwen2.5-32B can identify conflicts with near 100% accuracy when more than two conflicts are present in an instruction. **Despite their conflict detection capabilities, they fail to explicitly acknowledge conflicts in most cases.**

(2) Claude-3.5 models exhibit conflict-aware behavior that scales with the number of conflicts.

In Claude-3.5-Sonnet, the combined proportion of

Behaviors 2 and 3 increases from 32.0% when handling instructions with 1-2 conflicts to 64.0% when handling instructions with 5-6 conflicts. A similar trend is observed in Claude-3.5-Haiku. However, despite the presence of multiple conflicts in instructions, Behavior 1 still constitutes a significant proportion of Claude-3.5 models’ responses.

These findings underscore the necessity of enhancing LLMs to adopt safe conflict resolution behaviors when faced with conflicts, which is essential for ensuring reliable responses.

Model	GP	$\mathcal{I}_1$				$\mathcal{I}_0$		F1
		B1↓	B2↑	B3	B4	B5↑	B6↓	
GPT-4o	✗	97	1	1	1	100	0	-
	✓	4	96	0	0	60	40	81.4
GPT-4o-mini	✗	98	0	0	2	100	0	-
	✓	4	96	0	0	47	53	77.1
Claude-3.5-Haiku	✗	93	2	2	3	100	0	-
	✓	16	84	0	0	78	22	81.6

Table 3: Distribution (%) of LLM behaviors with or without the guiding prompt (GP) designed to detect and resolve instruction conflicts using Behavior 2. Here, B refers to behavior types. $\mathcal{I}_1$ and $\mathcal{I}_0$ represent instructions with one conflict and without conflicts, respectively. For conflict-free instructions ($\mathcal{I}_0$), we report two types of model behaviors: **Behavior 5** (LLMs determine that the instruction has no conflict and executes it directly) and **Behavior 6** (LLMs incorrectly detect conflicts and unnecessarily asks for clarification). F1 denotes the F1 score of LLMs in identifying instruction conflicts when using the GP. Results highlighted in green and red indicate whether the behavioral changes meet or fail to meet expectations, respectively.

5.2 Prompting LLMs to Resolve Instruction Conflicts Using Desired Behaviors

LLMs often fail to explicitly acknowledge conflicting instructions. This study investigates whether prompt engineering can guide LLMs to identify and resolve such conflicts according to desired behavioral patterns. To explore this, we prepend user instructions with the prompt designed to detect and resolve instruction conflicts with Behavior 2, as detailed in Table 8. As shown in Table 3, this prompt can effectively induce LLMs to adopt the predefined desired Behavior 2 (acknowledging conflict and requesting clarification). However, it also causes LLMs to behave overly conservatively, asking for clarification even when no conflict exists (Behavior 6), thereby degrading the user experience. These findings suggest that **while prompt engineering can influence conflict resolution behavior, it alone is insufficient for achieving both**

Constraints	Content	Keyword	Phrase	Style	Length	Format
Consistency	92%	88%	100%	92%	96%	100%

Table 4: Consistency between GPT-4o and human evaluations across different constraint types in the instruction-following task.

desired conflict resolution and accurate execution of non-conflicting instructions.

5.3 Analysis on Constraint Priority

Constraint-Following Ability of LLMs on Conflict-Free Instructions. We first feed each conflict-free instruction $I_i \in \mathcal{I}_0$ into LLMs and evaluate their **Constraint Satisfaction Rate (CSR)** in the absence of conflicting constraints. CSR is defined as follows:

$$CSR = \frac{1}{M} \sum_{i=1}^N \sum_{j=1}^{l_i} I_i^j, \quad (1)$$

where $I_i^j = 1$ if the j -th constraint of the i -th instruction is satisfied and $I_i^j = 0$ otherwise. Here, l_i denotes the number of constraints in I_i , N represents the number of instructions, and M is the total number of constraints across all instructions.

We use GPT-4o to evaluate whether the model’s output satisfies the specified constraints (the evaluation prompt is shown in Table 10). To assess the evaluation quality of GPT-4o, we manually labeled 150 constraints and then verified whether each constraint was satisfied in LLMs’ responses. Table 4 shows that automatic evaluation aligns closely with human judgment. Figure 6 presents the CSR results of seven LLMs across different constraint types, revealing a clear performance pattern: the CSR score is notably lowest for length constraints but higher for the other five constraint types.

Impact of Conflicting Constraints on LLMs’ Constraint-Following Ability. As shown in Figure 5, when an instruction contains only a few conflicts, LLMs predominantly exhibit Behavior 1, meaning they tend to satisfy some of the constraints in the instruction. To further investigate how Newly introduced conflicting Constraints (NC) affect LLMs’ ability to adhere to Original Constraints (OC), we focus on instructions containing a single conflict. Given computational constraints, we examine three types of conflicts: CC, KK, and PP. To examine the effect of NC’s position, we construct two subsets for each conflict type:

- **NCA subsets** ($\mathcal{I}_{CC}, \mathcal{I}_{KK}, \mathcal{I}_{PP}$): NC is introduced **after** OC.

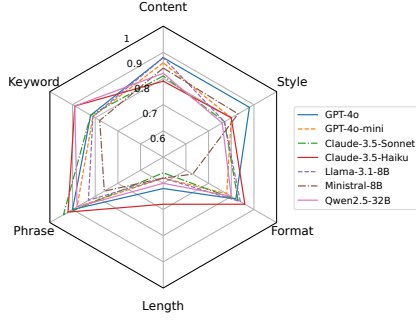
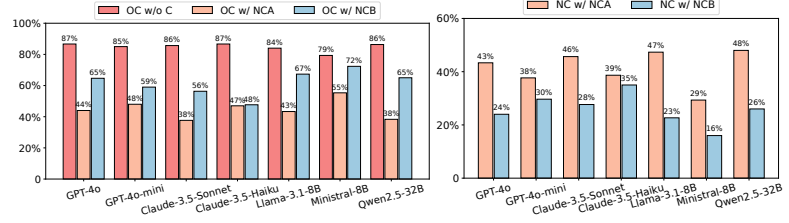


Figure 6: CSR results of various LLMs across different constraint types.



(a) Constraint satisfaction rates of OC (b) Constraint satisfaction rates of NC
Figure 7: The impact of the order of NC on the constraint satisfaction rates of both OC and NC. ‘w/o C’ denotes the absence of conflicts, while ‘NCA’ and ‘NCB’ indicate that NC appears after and before OC, respectively.

- **NCB subsets** ($\mathcal{I}'_{CC}, \mathcal{I}'_{KK}, \mathcal{I}'_{PP}$): NC is introduced **before** OC.

Each subset contains 100 single-conflict instructions. We input these into LLMs and use GPT-4o to evaluate whether their responses satisfy OC or NC (see Table 11 for the evaluation prompt). To validate the reliability of GPT-4o’s assessment, we manually annotated 100 conflicting cases, achieving 90% agreement with GPT-4o’s judgments.

Figure 7(a) shows the impact of NC on LLMs’ ability to satisfy OC. The results reveal the following key observations: (1) **NC significantly reduces OC satisfaction rates**, suggesting that newly introduced constraints interfere with previously given ones. (2) **The order of NC matters**. OC is more likely to be followed when NC appears before OC rather than after it. This suggests that the **later a constraint appears in an instruction, the more likely it is to be followed**. As shown in Figure 7(b), NC is more likely to be followed when it appears **later** (NCA) rather than earlier (NCB), further reinforcing the idea that **constraints appearing later in an instruction are more likely to be satisfied**.

6 Related Work

6.1 Controllable Text Generation

Controllable text generation focuses on guiding language models to generate text with specific attributes, such as sentiment (Keskar et al., 2019; Dathathri et al., 2020), lexical constraints (He, 2021; He and Li, 2021; He et al., 2022), length (Kikuchi et al., 2016; Fan et al., 2018). Recent studies have constructed data based on these controllable tasks to evaluate (Zhou et al., 2023a; Sun et al., 2023) or enhance the instruction-following ability of LLMs (Zhou et al., 2023b). Unlike prior work, which assumes that all constraints within instructions are consistent, we assess LLMs’ ability to detect and resolve conflicting constraints, offering new insights into their behavior when handling

instructions with conflicts.

6.2 Conflict Detection

Conflict detection has been extensively studied in natural language inference (Bowman et al., 2015; Williams et al., 2018) and fact verification (Thorne et al., 2018), aiming to detect contradictions between two statements or between claims and external evidence sources. More recently, research has expanded to detecting conflicts among retrieved documents (Jiayang et al., 2024), or discrepancies between LLMs’ parametric knowledge and retrieved documents (Chen et al., 2022; Neeman et al., 2023; Xie et al., 2024). Meanwhile, hallucination detection in LLMs (Manakul et al., 2023; Min et al., 2023) investigates false or misleading content generated by LLMs. While these studies explore different aspects of conflict detection, they do not focus on conflicting instructions where multiple constraints contradict each other. Our work extends beyond these domains by systematically evaluating how LLMs detect and resolve explicit conflicts within user instructions.

7 Conclusion

We introduce ConInstruct, a benchmark designed to evaluate LLMs’ ability to detect and resolve conflicting constraints within instructions. Our findings reveal that while proprietary LLMs demonstrate strong conflict detection capabilities, they often fail to explicitly communicate conflicts to users, instead generating responses that only partially satisfy the given constraints. This highlights a critical gap in instruction-following: despite recognizing conflicts, LLMs struggle to transparently convey them. Future research should focus on enhancing LLMs’ ability to explicitly notify users of conflicts and seek clarification, improving their reliability in real-world applications that demand precise adherence to instructions.

8 Limitations

Despite the insights provided by ConInstruct, our study has several limitations. While our benchmark covers a diverse range of constraints and conflicts, it may not fully encompass all possible forms of instruction inconsistencies. In designing conflicting constraints, we prioritized the feasibility of evaluating constraint satisfaction using LLMs or automated programs. This consideration led us to avoid overly complex constraints and ambiguous conflicts. Another limitation is that our dataset primarily focuses on text-based instructions, restricting its applicability to multimodal scenarios where conflicts may arise in image, audio, or video-based instructions. Future work should explore extending our benchmark to assess how LLMs handle conflicting constraints in multimodal settings.

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A Constraint Dimensions

A.1 Content Constraints

Content constraints involve incorporating specific details related to the content. These details may encompass various aspects, such as reasons, purposes, topics, background information, budgets, targets, and more.

A.2 Keyword Constraints

1. Keywords Inclusion: This constraint specifies the inclusion of specific keywords. Examples of this constraint:

- Include all of the following keywords in the response: {keyword list}.
- Include at least/at most/exactly {N} of the following keywords in the response: keyword list.
- Include either {keyword1} or {keyword2}, but not both, in the response.

2. Forbidden Words: This constraint specifies keywords that must not be included. Examples of this constraint:

- Do not include the following forbidden keywords in the response: {forbidden keyword list}.

3. Keyword Frequency: This constraint specifies the frequency of keywords. Examples of this constraint:

- The keyword {keyword} must appear at least/at most/exactly {N} times in the response.

4. Letter Frequency: This constraint specifies the frequency of letters. Examples of this constraint:

- The letter {letter} must appear at least/at most/exactly {N} times in the response.

5. Keyword Order: This constraint specifies the order of keywords. Examples of this constraint:

- The keyword {keyword1} must appear before/after the keyword {keyword2} in the response.

6. Keyword Proximity: This constraint specifies the distance between keywords. Examples of this constraint:

- The keyword {keyword1} must appear at least/at most/exactly {N} words/sentences/paragraphs away from the keyword {keyword2}.
- The keywords {keyword list} must/must not appear in the same paragraph/sentence.

7. Keyword Position: This constraint specifies the positions of keywords. Examples of this constraint:

- The keywords {keyword list} must/must not appear in the first/last/n-th paragraph/sentence of the response.

8. Keyword Part-of-speech: This constraint specifies the part-of-speech tag for keywords, which possess multiple part-of-speech tags in the Oxford Dictionary. Do not apply this constraint to keywords with only a single part-of-speech tag. Examples of this constraint:

- The keyword {keyword} must appear in the response and used as {part-of-speech tag in the Oxford Dictionary}.

9. Keyword Definition: This constraint specifies the definition for keywords, which possess multiple definitions in the Oxford Dictionary. This constraint can only be used to verbs or adjectives. Do not apply this constraint to keywords with fewer than three definitions. Examples of this constraint:

- The keyword {verb or adjective} must appear in the response and convey the specified definition {definition in the Oxford Dictionary}.

A.3 Phrase Constraints

1. Phrase Inclusion: This constraint specifies the inclusion of specific phrases. The specific phrase must contain at least four words. Examples of this constraint:

- Include the phrase {phrase} in the response.

2. Phrase Frequency: This constraint specifies the frequency of phrases. The specific phrase must contain at least four words. Examples of this constraint:

- The phrase {phrase} must appear at least/at most/exactly {N} times in the response.

3. Phrase Position: This constraint specifies the positions of keywords. The specific phrase must contain at least four words. Examples of this constraint:

- Start/Finish the response/n-th paragraph with the phrase {phrase}.
- Include the phrase {phrase} in n-th paragraph.

A.4 Length Constraints

1. Number of Paragraphs: This constraint specifies the required number of paragraphs in the response. Examples of this constraint:

- The response must contain at least/at most/exactly {N} paragraphs.

2. Number of Sentences: This constraint specifies the required number of sentences in the response or within specific paragraphs. Examples of this constraint:

- The response must contain at least/at most/exactly {N} sentences.
- The n-th paragraph must contain at least/at most/exactly {N} sentences.
- Each paragraph must contain at least/at most/exactly {N} sentences.

3. Number of Words: This constraint specifies the required number of words in the response, or within specific paragraphs or sentences. Examples of this constraint:

- The response must contain at least/at most/exactly {N} words.
- The n-th paragraph/sentence must contain at least/at most/exactly {N} words.
- Each paragraph/sentence must contain at least/at most/exactly {N} words.

A.5 Format Constraints

1. JSON Format: This constraint requires the entire response to be wrapped in JSON format and follow specific JSON structure.

- The response must include the following keys: {key list}.
- The response must include at least/at most/exactly {N} of the following types: Number, String, Boolean, Array, or Object.

• The value of the key {key} must be a Number/String/Boolean/Array/Object.

• The value of the key {key} must be an integer equal to/less than/greater than {N}.

• The value of the key {key} must be an Array/Object containing at least/at most/exactly {N} elements.

2. Markdown Format: This constraint requires the entire response to follow specific Markdown formats. Examples of this constraint:

• The response must include at least/at most/exactly {N} headers at level {M}.

• The response must include at least/at most/exactly {N} ordered/unordered lists. Each list must include at least/at most/exactly {M} items.

• The response must include at least/at most/exactly {N} code blocks formatted with triple backticks (```) and a specified language (e.g., ```python).

• The response must include at least/at most/exactly N horizontal rules, formatted as – or ***.

• The response must include at least/exactly N hyperlinks formatted as [text](URL).

3. Bullet Format: This constraint specifies the requirements for bullet points. Examples of this constraint:

• Format specific content (e.g., reasons, contributions, purposes, and names) into a bulleted list containing at least/at most/exactly {N} points.

• Each bullet point must include at least/at most/exactly {N} words/sentences.

• Each bullet point must begin/end with a specific keyword/phrase: {keyword/phrase}.

4. Language Format: This constraint specifies the language requirements. Examples of this constraint:

• The entire response must be written exclusively in {language, such as Chinese, English}.

• The response must include a {language, such as Chinese, English} idiom/ancient poem.

1021	5. Case Sensitivity: This constraint defines the	5. Sentence Type Constraints: This constraint	1062
1022	required case for words. Examples of this con-	specifies the type of sentences. Examples of this	1063
1023	straint:	constraint:	1064
1024	• Write all words in lowercase/uppercase case.	• The response/n-th paragraph must include	1065
1025	• The response must include at least/at	at least/at most/exactly {N} declara-	1066
1026	most/exactly {N} lowercase/uppercase words.	tive/interrogative/exclamatory/imperative	1067
		sentences.	1068
1027	A.6 Style Constraints	6. Readability Constraints: This constraint	1069
1028	1. Rhetorical Style Constraints: This constraint	specifies the readability of the response. Exam-	1070
1029	specifies the rhetorical style to be used. Examples	ples of this constraint:	1071
1030	of this constraint:		
1031	• Include rhetorical questions to engage the au-	• Tailor the response for specific audience (e.g.,	1072
1032	audience.	children, laypersons, professionals, experts).	1073
1033	• Conclude with a strong call to action.	• Use at least/at most/exactly {N} technical	1074
		terms related to {field/topic}.	1075
1034	2. Tone and Emotion Constraints: This con-	• The response must simplify technical jargon,	1076
1035	straint specifies the tone or emotion of the response.	providing explanations for terms.	1077
1036	Examples of this constraint:	• Avoid using jargon/slang/archaic words.	1078
1037	• Write the response in a {tone/emotion, e.g.,	7. Person Constraints: This constraint specifies	1079
1038	positive/neutral/negative/academic/persuas-	the narrative perspective to be used. Examples of	1080
1039	ive/humorous/sarcastic} style suitable for a	this constraint:	1081
1040	{field/topic, e.g., motivational speech}.		
1041	• Use short, punchy sentences to create urgency	• The response must be written in the	1082
1042	and excitement.	first/second/third person.	1083
1043	• Convey empathy/sincerity/urgency in the re-	• Avoid using personal pronouns.	1084
1044	sponse.	• Include at least {N} sentences addressing the	1085
1045	• Use a neutral/optimistic/pessimistic tone	reader directly.	1086
1046	throughout the response.	8. Miscellaneous Style Constraints: Covers spe-	1087
1047	• The response must be aca-	cific stylistic choices not covered above. Examples	1088
1048	ademic/persuasive/humorous/sarcastic.	of this constraint:	1089
1049	3. Voice Constraints: This constraint specifies	• Mimic the writing style of {author/speaker}.	1090
1050	whether the response should use active or passive	• Include at least {N} metaphors/similes in the	1091
1051	voice. Examples of this constraint:	response.	1092
1052	• Write the response in active/passive voice.		
1053	• The response must include at least/at		
1054	most/exactly {N} sentences in passive/active		
1055	voice.		
1056	4. Sentence Structure Constraints: This con-		
1057	straint specifies the complexity or structure of sen-		
1058	tences. Examples of this constraint:		
1059	• The response/n-th paragraph must in-		
1060	clude at least/at most/exactly {N} sim-		
1061	ple/compound/complex sentences.		

1093	B Conflict Types	
1094	1. Conflicts between Content Constraints (CC)	
1095	• Definition: Conflicts occur when two content	
1096	requirements contradict each other.	1139
1097	• Example 1: The itinerary must exclude any	1140
1098	mention of national parks vs. The itinerary	1141
1099	must include national parks.	1142
1100	Explanation: One constraint says not to men-	1143
1101	tion national parks, while the other requires	1144
1102	them to be included.	1145
1103	2. Conflicts between Keyword Constraints (KK)	1146
1104	• Definition: Conflicts arise when keyword-	1147
1105	related rules are in opposition.	
1106	• Example 1: Include the keyword "like" vs.	1148
1107	Avoid using the keyword "like."	1149
1108	Explanation: The instructions directly contra-	1150
1109	dict each other, as one demands the use of the	1151
1110	keyword and the other forbids it.	1152
1111	• Example 2: The keyword "resignation" must	1153
1112	appear at least three times vs. Do not include	1154
1113	the keyword "resignation."	
1114	Explanation: One rule requires the keyword	1155
1115	"resignation" to appear multiple times, while	1156
1116	the other explicitly bans it.	1157
1117	• Example 3: The keyword "strategy" must ap-	1158
1118	pear before the keyword "quality" vs. The	1159
1119	keyword "quality" must appear before the key-	1160
1120	word "strategy."	1161
1121	Explanation: This is a conflict of word order,	1162
1122	where one rule demands "strategy" precedes	1163
1123	"quality" and the other dictates the opposite.	
1124	• Example 4: Use the keyword "bank" as a verb	1164
1125	vs. Use the keyword "bank" as a noun.	1165
1126	Explanation: The word "bank" is given dif-	1166
1127	ferent roles in each constraint, making them	1167
1128	incompatible.	1168
1129	• Example 5: The keywords "transaction" and	1169
1130	"clarification" must appear in the same para-	1170
1131	graph, with no more than five words separat-	1171
1132	ing them vs. The keywords "transaction" and	1172
1133	"clarification" must appear in the same para-	1173
1134	graph, with at least six words separating them.	1174
1135	Explanation: The two rules conflict in terms	1175
1136	of the allowable distance between the two key-	1176
1137	words.	1177
	3. Conflicts between Phrase Constraints (PP)	1178
	• Definition: Conflicts where different rules dic-	1179
	tate how phrases should appear.	1180
	• Example 1: The first paragraph starts with the	1181
	phrase "Embark on an unforgettable journey"	1182
	vs. The first paragraph starts with the phrase	1183
	"Begin an unforgettable journey."	
	Explanation: The rules conflict in terms of	1184
	how the first paragraph should begin, requir-	1185
	ing different phrases.	1186
	• Example 2: The first paragraph starts with the	1187
	phrase "Embark on an unforgettable journey"	1188
	vs. Do not include the phrase "Embark on an	1189
	unforgettable journey."	1190
	Explanation: One rule mandates the phrase	1191
	to appear at the beginning, while the other	1192
	forbids its use.	1193
	• Example 3: The first paragraph starts with the	1194
	phrase "Embark on an unforgettable journey"	1195
	vs. The first paragraph should not start with	1196
	the phrase "Embark on."	1197
	Explanation: The first rule dictates that the	1198
	paragraph must start with "Embark on an un-	1199
	forgettable journey," while the second rule	1200
	prohibits starting the paragraph with any	1201
	phrase that begins with "Embark on."	1202
	4. Conflicts between Length Constraints (LL)	1203
	• Definition: Conflicts occur when constraints	1204
	are in opposition regarding the length or size	1205
	of elements (e.g., word count, number of sen-	1206
	tences, number of paragraphs).	1207
	• Example 1: The email must contain exactly	1208
	five paragraphs, with each paragraph consist-	1209
	ing of at least 80 words vs. The email must	1210
	contain at most 300 words.	1211
	Explanation: If there are exactly five para-	1212
	graphs with a minimum of 80 words each, the	1213
	total word count exceeds 300, making the two	1214
	rules incompatible.	1215
	• Example 2: The email must contain exactly	1216
	five paragraphs vs. The email must contain at	1217
	most four paragraphs.	1218
	Explanation: The first rule requires five para-	1219
	graphs, while the second limits it to four.	1220
	• Example 3: Each paragraph consists of at least	1221
	100 words vs. The first paragraph contains	1222

1184	four sentences, with each consisting of at most		
1185	20 words.		
1186	Explanation: If each sentence in the first para-		
1187	graph has at most 20 words, the total word		
1188	count will not exceed 80. This directly con-		
1189	flicts with the rule requiring each paragraph		
1190	to contain at least 100 words.		
1191			
1192	• Example 4: Each paragraph consists of at least		
1193	100 words vs. The first paragraph has between		
1194	50 and 80 words.		
1195	Explanation: One rule requires the paragraph		
1196	to have at least 100 words, while the other		
	limits it to a smaller word count.		
1197			
1198	• Example 5: The email must contain exactly		
1199	five paragraphs, with each paragraph consist-		
1200	ing of at least five sentences vs. The email		
	must contain at most 20 sentences.		
1201	The first rule requires at least 25 sentences		
1202	(5 paragraphs × 5 sentences), which conflicts		
1203	with the second rule, which limits the total to		
1204	20 sentences.		
1205			
	5. Conflicts between Format Constraints (FF)		
1206	• Definition: Conflicts between different for-		
1207	matting requirements.		
1208			
1209	• Example 1: The response must include at least		
1210	two level-1 headers vs. The response can only		
1211	use level-2 headers.		
1212	Explanation: One rule requires level-1 head-		
1213	ers, while the other forbids them, limiting the		
	response to only level-2 headers.		
1214			
1215	• Example 2: The email must be formatted		
1216	in JSON with the following keys: "subject",		
1217	"body", and "signature" vs. The email must		
1218	be formatted in JSON with two keys.		
1219	Explanation: One rule requires three keys,		
	while the other allows only two.		
1220			
1221	• Example 3: Present the fine dining recommen-		
1222	dations in a bulleted list of exactly three points		
1223	vs. Avoid using bullet points.		
1224	Explanation: The first rule requires bullet		
	points, while the second forbids them.		
1225			
1226	• Example 4: The email must be written exclu-		
1227	sively in English vs. The email must include		
1228	a Chinese idiom.		
1229	Explanation: One rule requires the email to		
1230	be only in English, while the other mandates		
1231	the inclusion of a Chinese idiom, presented in		
	Chinese.		
	• Example 5: The email should include at least	1232	
	five uppercase words vs. The email must be	1233	
	written in lowercase.	1234	
	Explanation: One rule requires uppercase	1235	
	words, while the other specifies that every-	1236	
	thing must be in lowercase.	1237	
	6. Conflicts between Style Constraints (SS)	1238	
	• Definition: Conflicts arise when different	1239	
	stylistic rules are at odds with each other.	1240	
	• Example 1: The response must be written in	1241	
	the first person vs. The response must be writ-	1242	
	ten in the second person.	1243	
	Explanation: The two rules conflict because	1244	
	one requires a first-person perspective, while	1245	
	the other demands a second-person perspec-	1246	
	tive.	1247	
	• Example 2: Ensure the email is written in a	1248	
	formal tone vs. Ensure the email is written in	1249	
	an informal tone.	1250	
	Explanation: One rule demands a formal tone,	1251	
	while the other requires an informal one.	1252	
	• Example 3: Tailor the response for laypersons	1253	
	vs. Tailor the response for experts.	1254	
	Explanation: The two rules conflict because	1255	
	they require the response to be suitable for	1256	
	different audiences: laypersons and experts.	1257	
	7. Conflicts between Keyword Constraints and	1258	
	Phrase Constraints (KP)	1259	
	• Definition: Conflicts between specific key-	1260	
	words and larger phrases.	1261	
	• Example 1: Refrain from using the keyword	1262	
	"unforgettable" vs. The first paragraph starts	1263	
	with the phrase "Embark on an unforgettable	1264	
	journey."	1265	
	Explanation: The first rule forbids the use of	1266	
	"unforgettable", while the second requires it	1267	
	as part of a phrase.	1268	
	• Example 2: The first paragraph starts with the	1269	
	phrase "Embark on an unforgettable journey"	1270	
	vs. The keyword "unforgettable" must appear	1271	
	before "embark."	1272	
	Explanation: The first rule specifies that the	1273	
	phrase "Embark on an unforgettable journey"	1274	
	should be used, with "embark" coming first.	1275	
	However, the second rule requires that the	1276	
	word "unforgettable" must precede "embark,"	1277	
	creating an ordering conflict.	1278	

1279	8. Conflicts between Phrase Constraints and		
1280	Content Constraints (PC)		
1281	• Definition: Conflicts arise when specific		
1282	phrase requirements contradict broader con-		
1283	tent or thematic requirements, making it im-		
1284	possible to adhere to both at the same time.		
1285	• Example 1: The email must include the phrase		
1286	"Thank you for your business" vs. The email		
1287	should not express gratitude or appreciation		
1288	Explanation: The first rule requires a specific		
1289	phrase expressing gratitude, while the sec-		
1290	ond rule prohibits any expression of gratitude,		
1291	making these content and phrase constraints		
1292	incompatible.		
1293	• Example 2: The response must contain the		
1294	phrase "A visit to Yellowstone National Park		
1295	is a must" vs. The itinerary must exclude any		
1296	mention of national parks		
1297	Explanation: The first rule mandates mention-		
1298	ing Yellowstone National Park, while the sec-		
1299	ond rule explicitly forbids mentioning any na-		
1300	tional parks, creating a direct conflict.		
1301	• Example 3: The introduction must include the		
1302	phrase "We guarantee the lowest prices" vs.		
1303	The content must not make any guarantees or		
1304	promises		
1305	Explanation: The first rule demands a specific		
1306	phrase that guarantees low prices, while the		
1307	second rule forbids making guarantees, creat-		
1308	ing a contradiction.		
1309	9. Conflicts between Phrase Constraints and		
1310	Style Constraints (PS)		
1311	• Definition: Conflicts arise when specific		
1312	phrase requirements contradict stylistic re-		
1313	quirements, such as tone, perspective, or for-		
1314	mality.		
1315	• Example 1: The response must include the		
1316	phrase: "I strongly believe this is the best ap-		
1317	proach." vs. The response must be written in		
1318	the second person		
1319	Explanation: The phrase uses first-person per-		
1320	spective ("I strongly believe"), but the style		
1321	constraint requires the response to be in the		
1322	second person.		
1323	• Example 2: The response must include the		
1324	phrase: "Hey buddy, this is gonna be awe-		
1325	some!" vs. The response must be written in a		
		formal tone	1326
		Explanation: The required phrase is informal	1327
		and conversational, but the style constraint	1328
		demands a formal tone.	1329
	• Example 3: The response must include the		1330
	phrase: "The stochastic process adheres to a		1331
	Markovian property." vs. The response must		1332
	be tailored for laypersons		1333
	Explanation: The phrase contains technical		1334
	jargon suited for experts, but the style con-		1335
	straint requires the response to be accessible		1336
	to laypersons.		1337
	• Example 4: The response must include the		1338
	phrase: "This is the worst decision ever		1339
	made." vs. The response must maintain a neu-		1340
	tral and unbiased tone		1341
	Explanation: The required phrase expresses		1342
	a strong negative opinion, contradicting the		1343
	neutrality constraint.		1344
	C Prompt Templates		1345

I currently have a simple seed instruction (i.e., [Seed Instruction]). Your task is to make it more complex by adding additional constraints. To assist you in completing this task, I will provide six types of constraints for your reference (i.e., [Reference Constraints]), which include ‘Content Constraints’, ‘Keyword Constraints’, ‘Phrase Constraints’, ‘Length Constraints’, ‘Format Constraints’, and ‘Style Constraints’. Each type of constraint includes several different sub-constraints. For example, ‘Format Constraints’ consist of five sub-constraints: JSON Format, Markdown Format, Bullet Format, Language Format, and Case Sensitivity. For each sub-constraint, we will first provide a definition followed by example templates. You may choose a suitable template from these examples or create your own, as long as it satisfies the sub-constraint’s definition. Ensure that you strictly apply all sub-constraints from each type without prioritizing any particular one.

Below is [Reference Constraints].

[Reference Constraints]

{*Constraints in §A*}.

Below is the requirements for modifying the seed instruction.

[Requirements]:

1. You must use all constraints from [Reference Constraints].
2. Feel free to use any constraints other than [Reference Constraints] that you deem appropriate.
3. When adding constraints to the seed instruction, you are free to combine and paraphrase the selected constraints as needed. Seamlessly integrate these constraints into the seed instruction without omitting any key information, and avoid directly listing the selected constraints.
4. If the seed instruction is a question, please do not modify the seed instruction. Add constraints after the seed instruction.
5. Directly output the modified instruction (the instruction with added constraints in plain text format, i.e., [Modified Instruction]), without any analysis. The modified instruction must not contain line breaks.

Below is the seed instruction.

[Seed Instruction]: {*Seed Instruction*}

[Modified Instruction]:

Table 5: Prompt template for expanding seed instructions.

I currently have an instruction (i.e., [Instruction]) that includes multiple constraints, all of which can be satisfied simultaneously. Your task is to add new constraints to this instruction. These new constraints should conflict with the existing ones in the given instruction, meaning they cannot be satisfied at the same time. However, the new constraints themselves must not conflict with one another. To assist you in completing this task, I will provide six types of constraints for your reference (i.e., [Reference Constraints]), which include 'Content Constraints', 'Keyword Constraints', 'Phrase Constraints', 'Length Constraints', 'Format Constraints', and 'Style Constraints'. Each type of constraint includes several different sub-constraints. For example, 'Format Constraints' consist of five sub-constraints: JSON Format, Markdown Format, Bullet Format, Language Format, and Case Sensitivity.

Below is [Reference Constraints].

[Reference Constraints]

{Constraints in \$A}.

Below are the types of conflicts and their corresponding examples:

[Conflict Types]

{Conflict types in \$B}.

When adding conflicting constraints into the given instruction, you must adhere to the following requirements:

[Requirements]:

1. Select constraints exclusively from [Reference Constraints].
2. The selected constraints must conflict with at least one constraint in the provided instruction. However, there must be no internal conflicts among the selected constraints. Do not include constraints that do not conflict with the given instruction's existing constraints.
3. The conflicts between the selected constraints and the existing constraints in the given instruction must be explicit and unambiguous.
4. The conflicts must cover all nine conflict types in [Conflict Types], with each conflict type containing one pair of conflicting constraints.
5. The conflicting examples in [Conflict Types] and the example below are provided to aid your understanding. However, I would prefer that you not rely solely on these examples. Please come up with a wider variety of conflict scenarios.
6. The output must strictly adhere to the format shown in the example below.

Here is an example:

{In-Context Example}

[Instruction]: {Instruction}

Table 6: Prompt template for adding conflicting instructions.

I currently have an instruction (i.e., [Instruction]) that includes multiple constraints. Please help me judge whether the instruction contains conflicting constraints, which cannot be satisfied simultaneously.

Answer "YES" if you think the [Instruction] contains conflicting constraints or requirements; otherwise, answer "NO."

Please first provide an explanation and then give the answer. Your output should follow the format below:

[Explanation]: Your explanation

[Answer]: YES / NO

[Instruction]: {Instruction}

Table 7: Prompt template for conflict detection.

I currently have an instruction (i.e., [Instruction]) that includes multiple constraints. Please analyze whether any of these constraints are in conflict and cannot be satisfied simultaneously. If no such conflicts are found, proceed to execute the instruction. However, if conflicting constraints are detected, refrain from executing the instruction. Instead, clearly indicate the presence of conflicting constraints and request further clarification.

[Instruction]: {Instruction}

Table 8: Prompt template for instruction-following with an expected conflict resolution behavior.

You will be given an Instruction containing multiple constraints, some of which are conflicting and cannot be simultaneously satisfied. You will also be provided with a Model Response, which is generated based on the given Instruction.

Your task is to evaluate the Model Response and determine whether the model has recognized the conflicting constraints within the Instruction when generating its response. Follow these evaluation rules:

1. If the model does not acknowledge the conflicting constraints and directly provides a response to the instruction, output 1.
2. If the model identifies the conflicting constraints, does not provide a response to the instruction, and explicitly asks the user to clarify the instruction, output 2.
3. If the model identifies the conflicting constraints, resolves them on its own, and then provides a response to the resolved instruction, output 3.
4. If the model's response does not fit into any of the above categories, output 4.

Your output must strictly follow this format:

Output Format

****Analysis****: A brief analysis of the Model Response.

****Answer****: The evaluation result (1, 2, 3, or 4) without any additional content.

Evaluation Input

****Model Response****

{ *Model Response* }

****Instruction****

{ *Instruction* }

Evaluation Output

Table 9: Prompt template for evaluating LLM behavior when handling conflicting instructions.

Your task is to act as a quality evaluator, analyzing the content of the Model Response to determine whether it fully satisfies the requirements outlined in the Instruction. When evaluating, you should adhere to the following judgment criteria:

1. Answer "YES" if the Model Response entirely fulfills all the requirements specified in the instruction.
2. Answer "NO" if the Model Response fails to meet all the requirements or provides no relevant information for the given instruction.

Evaluation Steps

Please analyze the Model Response and Instruction carefully, adhering to the following steps:

Step 1: Analyze the Instruction, then extract relevant content from the Model Response. Copy sentences from the Model Response exactly as they are, without any modification.

1. If the instructions include constraints related to keywords or phrases (e.g., keyword definitions, keyword frequency, or phrase frequency), extract the sentences containing the specified keywords or phrases. Record the positions of these keywords or phrases, if necessary.
2. If the instructions include constraints related to specific information or topics, extract segments containing the relevant information or topics.
3. If the instructions include constraints related to output formats or styles, extract segments that reflect the specified formats or styles.

Step 2: Analyze whether the Instruction's constraints are fully satisfied.

Step 3: Provide your evaluation answer ("YES" or "NO"), without adding extra content.

Output Format

Step 1*: The extracted content from the Model Response.

Step 2*: A brief analysis of the Instruction.

Step 3*: YES / NO

Evaluation Input

Model Response

{ *Model Response* }

Instruction

{ *Instruction* }

Evaluation Output

Table 10: Prompt template for instruction-following evaluation.

You will be provided with the following:

1. Two instructions, Instruction 1 and Instruction 2.
2. A Model Response, generated by a model using Instruction 1 and Instruction 2.

Your task is to act as a quality evaluator, analyzing the content of the Model Response to determine which instruction's all constraints is fully satisfied based on the following rules:

1. If all constraints in Instruction 1 are fully satisfied, output 1.
2. If all constraints in Instruction 2 are fully satisfied, output 2.
3. If neither instruction's constraints are fully satisfied, output -1.

Note that these two instructions contain conflicting constraints, making it impossible for the Model Response to fully satisfy both simultaneously.

Evaluation Steps

Please analyze the Model Response, Instruction 1 and Instruction 2 carefully, adhering to the following steps:

Step 1: Analyze Instruction 1 and Instruction 2, and then extract relevant content from the Model Response. You should copy sentences from the Model Response exactly as they are, without any modification.

1. If the instructions include constraints related to keywords or phrases (e.g., keyword definitions, keyword frequency, or phrase frequency), extract the sentences containing the specified keywords or phrases. Record the positions of these keywords or phrases, if necessary.
2. If the instructions include constraints related to specific information or topics, extract segments containing the relevant information or topics.
3. If the instructions include constraints related to output formats or styles, extract segments that reflect the specified formats or styles.

Step 2: Analyze which instruction's constraints are fully satisfied.

Step 3: Directly give your evaluation answer (1, 2, or -1) without any additional content.

Output Format

****Step 1****: The extracted content from the Model Response.

****Step 2****: A brief analysis of Instruction 1 and Instruction 2.

****Step 3****: The evaluation result (1, 2, or -1) without any additional content.

Evaluation Input

****Model Response****

{*Model Response*}

****Instruction 1****

{*Instruction 1*}

****Instruction 2****

{*Instruction 2*}

Evaluation Output

Table 11: Prompt template used to evaluate which of the two mutually conflicting instructions is satisfied by a model's output.