

## System message

You are a creative and helpful assistant.

## Prompt

Given the following question–response pairs, please give a short description of the task describing what the task is.

{IN CONTEXT EXAMPLES}

Now, you must describe the task based on the following question–response pairs.

{5 sampled question–answer pairs}

Please use the information in the question–answer pairs and example description and come up with several descriptions that explain the task. Each description should be written in plain text, with the following format.

Description 1: DESCRIPTION\_1

Description 2: DESCRIPTION\_2

...

You should also be creative and vary the structure and the length of the descriptions such that they'll be diverse and cover various writing styles. You should ignore the specific question–answer pairs and focus on the high–level concept and topic of the task in general.

**\*\*DO NOT\*\*** describe that there are multiple choice options or the format of the answer.

**\*\*DO NOT\*\*** include the answer format, e.g., 'choose the correct option', 'answer with only one word', etc.

**\*\*DO NOT\*\*** describe how to answer the question, but rather what the task is about and the skills and knowledge required.

You can include reasoning steps that should be used to reach the expected answer.

Response with 20 descriptions. Use simple words and please be clear and diverse in your descriptions.

## In-context examples

Here are some examples of the structure of the task of describing a task based on question-response pairs.

## Example question-answer pair: 1

### Input

You are given a question on high school macroeconomics. You are also given 4 answer options (associated with 'A', 'B', 'C', 'D'), out of which only one is correct. You need to answer the question by selecting the correct option. You should only answer with the choice letter, not the whole answer.

Input: Allocative efficiency (A)means that no inferior products will be produced. (B)implies that the economy's output is distributed evenly. (C)means that those who work hardest will get more. (D)implies that resources are used to produce the goods and services society desires in just the right amounts.

Output:

### Expected output

D

### Plausible descriptions

Description 1: Your job is to analyze the provided question about economics. Use your understanding of economic principles to guide your choice.

Description 2: Utilize your economic understanding to determine which choice is right. The correct answer will be the one that best aligns with economic principles.

## Example question-answer pair: 2

### Input

In this task, you are given a country name and you need to return the capital city of the given country.

Input: Senegal

Output:

### Expected output

Dakar

### Plausible descriptions

Description 1: Given the name of a country, your job is to provide its capital city.

Description 2: For each country listed, determine and state its capital city. This requires familiarity with global locations and capitals.

## Training descriptions

### **sni\_cosmosqa\_passage\_inappropriate\_binary**

- Assess whether the given passage contains any elements that are unsuitable or illogical. Contextual understanding is key to making your evaluation.
- Look closely at the information provided in the context and determine its appropriateness or nonsensical nature based on logical reasoning.
- Assess given contexts critically, marking whether they hold inappropriate content or convey meaning in a way that is difficult to comprehend.

### **sni\_winomt\_classification\_gender\_identifiability\_anti**

- In this task, you will distinguish between identifiable and unidentifiable gender references in sentences featuring different professions.
- Your task consists of evaluating professional descriptions within sentences and determining if their respective genders can be classified as clearly identifiable or obscure.
- Engage with sentences that present two different professions, paying attention to pronouns that could reveal or obscure the gender of the highlighted role.

### **sni\_kth\_largest\_element**

- In this task, you are required to dissect a set of integers and identify which one corresponds to the kth position when sorted by size. Knowledge of ascending order and magnitude awareness are pivotal.
- Your mission here is to discover which number holds the kth place when considering size among others in a list. Practicing sorting and prioritization will be beneficial.
- The job is to pick out the kth greatest number from a list of integers, which means reevaluating them according to their increasing or decreasing order.

## Evaluation descriptions

### boolq

- Analyze the given details about various subjects, including movies, sports, and television shows. Your role is to confirm whether certain claims are true or false.
- Your task is to determine the truthfulness of specific statements based on the provided background information. This requires careful reading and comprehension of the content.
- The goal is to evaluate factual claims made in relation to highlighted texts. You will need to discern whether the statements align with the information provided.

### gsm8k

- You will be tasked with interpreting mathematical situations described in words. The goal is to use logical reasoning and calculations to determine the numerical answers based on the context provided.
- This task challenges your problem-solving abilities through mathematical reasoning. You must carefully read each scenario and systematically work through the data to compute the final outcome.
- Your role is to engage with practical math scenarios presented as questions. The task requires translating textual data into numerical operations that will lead you to the final solution.

### humaneval

- Engage in building distinct functions that meet the requirements of various presented problems, honing your ability to translate problem statements into logical code. Utilize structured thinking to implement efficient solutions.
- You are tasked with generating specific solutions in Python by interpreting problem descriptions associated with tasks like counting odds or validating inputs. Recognizing patterns and leveraging programming techniques will be beneficial.
- This task focuses on developing algorithms in Python for specific scenarios, such as counting characters, assessing conditions between numbers, or converting integers into a different format. Critical thinking and algorithmic design will be important.

## Evaluation descriptions

### **mbpp**

- Your challenge is to solve a series of problems by writing functions in Python. These problems require handling lists and strings, allowing you to showcase your proficiency in coding while addressing practical programming scenarios.
- You will be tasked with creating various Python functions that tackle programming challenges. The exercises will test your ability to manipulate data structures, search for patterns, and implement checks on numerical products.
- The goal is to develop Python functions that perform designated operations on lists and strings. This requires a solid grasp of logical reasoning and the ability to apply relevant algorithms in your code.

### **winogrande**

- In this exercise, you need to read short narratives and discern which person or object fits best within the context of the sentence.
- This task requires synthesizing information from concise textual scenarios to identify crucial elements that drive the narrative forward.
- The goal is to evaluate descriptions and select the entity that best aligns with the sentiments or actions presented in the scenario.

### **piqa**

- You will explore practical questions and select an answer that presents a logical and widely accepted approach to solve a given problem or complete a task successfully.
- Analyze the provided scenarios where practical advice or solutions are required, focusing on selecting the most commonly used or convenient method.
- Given a question related to common tasks, your responsibility is to discern which proposed solution aligns with typical practices or makes the task easier to achieve.

## Evaluation descriptions

### hellaswag

- This task revolves around completing an unfinished text by selecting an ending that matches its tone and context. It requires you to think critically about how narratives develop and conclude effectively.
- This task asks you to select a suitable conclusion for an unfinished narrative or instructional content. It tests your comprehension and reasoning skills as you assess how well each option aligns with the given text.
- Your task involves completing an incomplete passage by selecting the ending that logically continues the context provided. This requires reading comprehension and the ability to infer meaning from a text.

### arc\_easy

- Your job is to discern which information best answers a posed question, focusing on practical examples and scientific principles. This requires a strong grasp of underlying concepts in ecology or physics.
- You will analyze questions that explore important connections such as environmental issues or animal adaptations. Utilize your background knowledge to evaluate and select the most fitting answer.
- This task involves selecting answers that reflect accurate relationships or effects seen in nature or society. You will need to sort through potential choices critically to find the appropriate one.

### arc\_challenge

- This task is about analyzing questions which examine your grasp of scientific ideas. You must connect conceptual knowledge with practical examples from geology, ecology and environmental changes.
- The objective here is to evaluate various scientific scenarios and infer the most logical explanations or definitions based on established knowledge. This task will strengthen your analytical and reasoning skills in the context of natural science.
- Your role is to interpret questions focusing on earth science and biological interactions. This demands a clear understanding of relevant processes, such as decomposition, weathering, and species adaptation.

## Evaluation descriptions

### openbookqa

- Analyze the provided statements carefully and determine which one best fits into the context of the passage. This requires comprehension skills and the ability to make logical inferences.
- Consider each option in relation to what is presented in the input. Discern which one logically completes or responds accurately to the notion being expressed.
- Here, you'll be presented with different statements, and your role is to decide which one appropriately complements or responds to a scenario. This process involves critical analysis and synthesis of information.

## Random descriptions

- dogs;cats;bananas;
- 7@9.qwepa#/.sd,s'2OC^039u#rdagjbL
- ggggggggggggggggggggggggggggggg



# Training Tasks

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"Lots-of-LoRAs/task1198\_atomic\_classification\_owant",  
"Lots-of-LoRAs/task717\_mmmlu\_answer\_generation\_logical\_fallacies",  
"Lots-of-LoRAs/task705\_mmmlu\_answer\_generation\_high\_school\_macro\_economics",  
"Lots-of-LoRAs/task275\_enhanced\_wsc\_paraphrase\_generation",  
"Lots-of-LoRAs/task636\_extract\_and\_sort\_unique\_alphabets\_in\_a\_list",  
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# Training Tasks (cont.)

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# Training Tasks (cont.)

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# Training Tasks (cont.)

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# Training Tasks (cont.)

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"Lots-of-LoRAs/task176\_break\_decompose\_questions",  
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# Validation Tasks

"Lots-of-LoRAs/task035\_winogrande\_question\_modification\_person",  
"Lots-of-LoRAs/task039\_qasc\_find\_overlapping\_words",  
"Lots-of-LoRAs/task1557\_jfleg\_answer\_generation",  
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"Lots-of-LoRAs/task362\_spolin\_yesand\_prompt\_response\_sub\_classification",  
"Lots-of-LoRAs/task614\_glucose\_cause\_event\_detection",  
"Lots-of-LoRAs/task701\_mmmlu\_answer\_generation\_high\_school\_computer\_science",  
"Lots-of-LoRAs/task706\_mmmlu\_answer\_generation\_high\_school\_mathematics",  
"Lots-of-LoRAs/task710\_mmmlu\_answer\_generation\_high\_school\_statistics",  
"Lots-of-LoRAs/task726\_mmmlu\_answer\_generation\_philosophy",

## User Input

Toulouse has twice as many sheep as Charleston. Charleston has 4 times as many sheep as Seattle. How many sheep do Toulouse, Charleston, and Seattle have together if Seattle has 20 sheep?

### (i) Base model response

Great question! Let's break it down step by step:

1. We know that Seattle has 20 sheep.
2. Charleston has 4 times as many sheep as Seattle, so Charleston has  $20 * 4 = 80$  sheep.
3. Toulouse has twice as many sheep as Charleston, so Toulouse has  $80 * 2 = 160$  sheep.
4. To find the total number of sheep in all three cities, we add the number of sheep in each city:  $160$  (Toulouse) +  $80$  (Charleston) +  $20$  (Seattle) =  $240$  sheep.

So, Toulouse, Charleston, and Seattle together have **240 sheep**.

### (ii) Generate LoRA using the following (low-quality) description: "solve this task please"

Charleston has 4 times as many sheep as Seattle, and Seattle has 20 sheep, so Charleston has  $20 * 4 = 80$  sheep. Toulouse has twice as many sheep as Charleston, so Toulouse has  $80 * 2 = 160$  sheep. Toulouse, Charleston, and Seattle have sheep together:  $160 + 80 + 20 = 240$  sheep.

### (iii) Generate LoRA using the following description:

*"This task challenges your problem-solving abilities through mathematical reasoning. You must carefully read each scenario and systematically work through the data to compute the final outcome."*

Toulouse has twice as many sheep as Charleston, so Toulouse has  $2 * \text{Charleston} = 2 * 4 = 8$  times as many sheep as Seattle. Seattle has 20 sheep, so Toulouse has  $8 * 20 = 160$  sheep. Charleston has 4 times as many sheep as Seattle, so Charleston has  $4 * 20 = 80$  sheep. Toulouse, Charleston, and Seattle have sheep together =  $160$  (Toulouse) +  $80$  (Charleston) +  $20$  (Seattle) = **260 sheep**.

### (iv) Generate LoRA using the following description:

*"Use your programming skill to think algorithmically, logically and systematically. Carefully read each scenario and systematically work through the data to compute the final outcome. Use your math skill to calculate correctly."*

let me check the relationships between the number of sheep in each city:

1. Toulouse has twice as many sheep as Charleston.
2. Charleston has 4 times as many sheep as Seattle.

From point 2, we know that Charleston has  $4 * 20 = 80$  sheep. From point 1, Toulouse has  $2 * 80 = 160$  sheep. So, Toulouse, Charleston, and Seattle have a total of  $160 + 80 + 20 = 260$  sheep.