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# THE EXTRACTIVE-ABSTRACTIVE SPECTRUM: UNCOVERING VERIFIABILITY TRADE-OFFS IN LLM GENERATIONS

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Theodora Worledge, Tatsunori Hashimoto, Carlos Guestrin<sup>\*†</sup>

## 1 Prompts with Few-Shot Examples

### 1.1 Prompts for the Quoted Generation

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The provided sources should contain enough information to write a response to the query. However, in the rare case that the sources are insufficient, then respond with "Insufficient information to generate a grounded response."

**Query:** What's the life cycle of a frog?

**Sub-questions:** What's the life cycle of a frog?

**Sources:**

".S., Applied Ecology, Indiana University BloomingtonB.S., Biology and Chemistry, University of Illinois at Urbana-ChampaignLaura Klappenbach, M.S., is a science writer specializing in ecology, biology, and wildlife.Learn about ourEditorial ProcessUpdated on August 11, 2019The life cycle of a frog consists of three stages: egg, larva, and adult. As the frog grows, it moves through these stages in a process known as metamorphosis."

"But in a few species, parents remain with the eggs to look after them as they develop. As the fertilized eggs mature, the yolk in each egg splits into more and more cells and begins to take the form of a tadpole, the larva of a frog. Within one to three weeks, the egg is ready to hatch, and a tiny tadpole breaks free.03of 04Stage 2: Tadpole (Larva)Johner Images / Getty ImagesTadpoles, frogs' larvae, have rudimentary gills, a mouth, and a long tail. For the first week or two after the tadpole hatches, it moves very little. During this time, the tadpole absorbs the remaining yolk left over from the egg, which provides much-needed nourishment. After absorbing the yolk, the tadpole is strong enough to swim on its own.Most tadpoles feed on algae and other vegetation, so they are considered herbivores. They filter material from the water as they swim or tear away bits of plant material. As the tadpole continues to grow, it begins to develop hind limbs."

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"The legless, water-bound tadpoles slowly metamorphose into frogs over the next 14 weeks. First, they grow back legs, then front legs too! Soon after, their body starts to change shape, and they're able to start eating insects. Next, the tadpoles' tails shrink away, and skin grows over their gills, as they develop lungs and eardrums! These are super important steps, as they prepare the tadpole for life on land. Once their gills and tails are gone forever, tadpoles undergo one last 24-hour push, where the metamorphosis completes. Once this stage is finished, the baby frogs emerge from the water as tiny adults!"

**Response:** "The life cycle of a frog consists of three stages: egg, larva, and adult. As the frog grows, it moves through these stages in a process known as metamorphosis." During the egg stage, "the yolk in each egg splits into more and more cells and begins to take the form of a tadpole, the larva of a frog. Within one to three weeks, the egg is ready to hatch, and a tiny tadpole breaks free." "Tadpoles, frogs' larvae, have rudimentary gills, a mouth, and a long tail." As they grow, "tadpoles feed on algae and other vegetation," and eventually, "they grow back legs, then front legs too! Soon after, their body starts to change shape, and they're able to start eating insects. Next, the tadpoles' tails shrink away, and skin grows over their gills, as they develop lungs and eardrums!"

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"Hyaluronic acid is a remarkable substance because of all the benefits and uses it has in your body. Here are just a few of the benefits of hyaluronic acid: It helps things move smoothly. Hyaluronic acid helps your joints work like a well-oiled machine. It prevents pain and injury from bones grinding against each other. It helps keep things hydrated."

"Hyaluronic acid is very good at retaining water. A quarter-teaspoon of hyaluronic acid holds about one and a half gallons of water. That's why hyaluronic acid is often used for treating dry eyes. It's also used in moisturizing creams, lotions, ointments and serums. It makes your skin flexible. Hyaluronic acid helps skin stretch and flex and reduces skin wrinkles and lines. Hyaluronic acid is also proven to help wounds heal faster and can reduce scarring."

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Query: who invented the cornell method of note taking

Sub-questions: Who invented the Cornell method of note taking?

Sources:

"It gained national popularity when he promoted it in his 1962 book, *How to Study in College*-which remains in print, in its 11th edition. (The father of two Cornellians, Pauk retired from the University in 1978 and passed away just three years ago-at the age of 105.) His system divides each notebook page into two unequal columns with a third, 'summary' section across the bottom. Students, whether attending a lecture or reading, record their notes and abbreviated facts in the wider right-hand column. Questions prompted by the material go on the left side-usually written afterward, but when the information is still fresh. 'As you're taking notes, keep the cue column empty,' Pauk wrote. 'But when you review and recite what you've jotted down, draw questions from the ideas in your notes and write them in the cue column. Writing questions helps clarify meanings, reveal relationships, establish continuity, and strengthen memory.' "

"But Cornell Notes remains his most prominent legacy-and for decades, Pauk's system has been popular across subject areas. It's used by students in high school, college, and beyond, with free templates available online. The technique remains flexible and adaptable, Bokaer-Smith says, and is just as useful today for online study and with e-textbooks. In a 2021 teaching guide offering insights 'by grad students, for grad students,' two Cornellians studying psychology (doctoral candidate Julia Nolte, MA '20, and Hamid Turker, PhD '22, now a postdoc on the Hill) contributed a section about Cornell Notes. Pauk's system is used by students in high school, college, and beyond. Nolte-who plans to use the system in her fall 2022 class on aging and the media-says it has several key advantages, including its templates and organizational approach. "

"The Cornell method provides a systematic format for condensing and organizing notes. This system of taking notes is designed for use by a high school or college level student. There are several ways of taking notes, but one of the most common is the 'two-column' notes style. The student divides the paper into two columns: the note-taking column (usually on the right) is twice the size of the questions/keyword column, which is on the left. The student leaves five to seven lines open, or about two inches (5 cm), at the bottom of the page. Notes from a lecture or text are written in the note-taking column; notes usually "

"To use Cornell, start by leaving a two-inch column on the left-hand side of the page. You should also be sure to leave a space of 3-4 lines blank at the bottom of the page. Once these areas have been designated you can take notes on the rest of the page as you normally would. Don't be afraid to use blank space to separate and organize new concepts. After you've finished taking notes for the class you'll want to go back (immediately, if you can) and use that blank column on the left to write questions that can be answered by the corresponding notes. Remember to put the question as close as possible to the note that answers it. Later on, you can quiz yourself by covering the main note section of the page and answering the questions in your own words. Finally, use the blank bottom section to briefly summarize the page in one or two sentences. "

"The Cornell Method was invented about sixty years ago (see Walter Pauk's 1962 classic *How to Study at College*, now in its tenth edition), though I only found out about it in 2012. It incorporates a lot of what I was doing already-providing spaces for notes, and margins for reactions, connections and comments. But it takes it further, and adds some very cool functions. Firstly, the template gives you less space to write notes. You aren't supposed to record everything you see, or even everything that is interesting. Having fewer lines to write notes encourages you to be selective-just to chose the quotes or paraphrases or details you expect to include in your thesis. It's so liberating to realise there's no way you will be able to

only read an article once for all for all time. Of course you need to reread it each time you want to use it for a new purpose, but you can be focused on what you're pretty sure you need for this article. (Which, face it, is usually 1 quote.) "

"There are many ways to take notes, and everyone seems to have their preference when it comes to note taking. Many methods involve some or all of the 5 R's of note taking: record, reduce, recite, reflect, and review. Too many students, however, are still using the same basic note taking method they first learned in middle school. Like any skill, note taking develops with practice. Practicing proven note taking techniques can dramatically improve a student's academic performance. One popular method of note taking is the Cornell System. It was developed by Walter Pauk, a college professor at Cornell University and author of academic success books. The Cornell System is a method for taking effective notes in a systematic manner. HOW TO FORMAT YOUR PAGES "

"Some people think the Cornell Method can only be implemented for handwriting. But remote workers use this method to take digital notes. Although there is a journal that highlighted the advantage of students who utilised study skills by taking notes by hand. The student managed to answer conceptual questions better than students who took notes with laptops. So, this article will cover the Cornell Method and its iconic 5 Rs. What is the Cornell Method? The Cornell Method is often referred to as the Cornell Notes System or the 5 Rs of note-taking. This method was invented in the 1950s by Walter Pauk, a professor of education at Cornell University. Professor Pauk writes about the implementation of the Cornell Method in his book: How to Study in College. The Cornell Method can be applied to both traditional and digital, making this method popular nowadays. Students and professionals can use this method to record lessons or during meetings. What makes the Cornell Method easy to use? The Cornell Method offers efficiency. The five steps which include record, reduce, recite, reflect and review, are easy to remember. This system encourages us to reflect on notes and summarise them in our own words. Despite its simplicity, the method makes us think critically about the key concepts in each lesson. We have to explain the main points in detail, so we are more likely to remember them. Also, it has a logical and easy-to-read layout. The left side contains the main points and the right side for details. This will make it easier to find information when referencing the record. Cornell University suggests closing the right side, which contains detailed definitions. Then see if we can redefine the bullet points. This note-taking tip will help you quickly identify topics that you want to review. Source: Chloe The 5 Rs of Note-Taking "

"Cornell Notes: A Step-by-Step Guide Use CasesFoundersManagersInvestorsSalesProduct ManagersPricingAboutBlogBook demoBook demoTry nowTry nowProductivity HacksCornell Notes: A Step-by-Step GuidebyLeo-07.10.2024Table of ContentsExample H2Example H3Ready to love your workday again?Use Jamie for free.Try nowTry now Your browser does not support the video tag. Reading time:5minThe Cornell note taking method is a structured system for recording, summarizing, and reviewing notes. Developed by Professor Walter Pauk of Cornell University, it divides the note page into three sections: a main note-taking area, a left-hand column for cues and questions, and a summary area at the bottom, facilitating an organized review and retention of information. Enhance your note-taking experience Jamie: Automated summaries for efficient learning Try Jamie for Free "

"How should you take notes in class? Like so many students who came before me and would come after, I had little idea in college and even less in high school. The inherently ambiguous nature of the note-taking task has inspired a variety of methods and systems, few of them as respected as Cornell Notes. Invented in the 1940s by Cornell University education professor Walter Pauk, author of How to Study in College, Cornell Notes involves dividing each page up into three sections: one to paraphrase the lecture's main ideas, one to summarize those ideas, and one to write questions. After writing down those main ideas during class, immediately summarize

and add questions about the content. Then, while studying later, try to answer those questions without looking at the main body of notes. " **Response:**

**Box 1.1:** Example of the prompt with few-shot examples used to generate the quoted output for NQ queries.

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**Query:** Explain to a third-grader: who stole the Mona Lisa from the Louvre in 1911

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**Sources:**

"After keeping the painting hidden in a trunk in his apartment for two years, Peruggia returned to Italy with it. He kept it in his apartment in Florence, Italy, for some time. However, Peruggia eventually grew impatient and was finally caught when he contacted Mario Fratelli, the owner of an art gallery in Florence. Fratelli's story conflicts with Peruggia's, but it was clear that Peruggia expected a reward for returning the painting to what he regarded as its 'homeland'. Fratelli called in Giovanni Poggi, director of the Uffizi Gallery, who authenticated the painting. Poggi and Fratelli, after taking the painting for 'safekeeping', informed the police, who arrested Peruggia at his hotel. After its recovery, the painting was exhibited all over Italy with banner headlines rejoicing its return. The Mona Lisa was then returned to the Louvre in 1913. While the painting was famous before the theft, the notoriety it received from the newspaper headlines and the large scale



police investigation helped the artwork become one of the best known in the world, gaining considerable public interest. "

"La Gioconda - better known as the Mona Lisa - wasn't really that famous before she was stolen. Advertisement The man who stole her, Vincenzo Peruggia, had once worked at the Louvre and had, ironically, helped build a protective case for the 16th century masterpiece. On Sunday, August 20, 1911, Peruggia and two accomplices took advantage of lax security and hid overnight in a storage closet at the Louvre. The next morning, while the museum was still closed, they calmly took down Leonardo da Vinci's priceless work, wrapped it in a cloth and waltzed out a side door. It took more than 24 hours to discover the 'art heist of the century', when a visiting artist, intending to paint a copy of the Mona Lisa, found only empty wall space. Police blitzed the Louvre, questioning people, while the media ran wild with the story. When the Louvre reopened, crowds came to stare at the bare wall hooks. Advertisement Because Peruggia was a former Louvre employee, police interviewed him - not once, but twice - but found nothing to incriminate him. Peruggia would wait over two years before writing to Alfredo Geri, an Italian art dealer, ostensibly out of a desire to repatriate the painting to Italy. Geri was stunned when he saw that smile. Geri called the police, who on December 11, 1913, arrested Peruggia. The man who planned the heist would serve only seven months in jail. "

"Part of the reason the Mona Lisa is known worldwide is because of its theft in 1911 by the Italian handyman Vincenzo Peruggia. That year, Peruggia and two others stowed themselves away in a closet of the Louvre, hung around until the museum closed, and then took the painting, which at the time was considered a minor work by Leonardo, with them, hopping on a train out of Paris. As the theft gained more and more press, both within France and outside it, Peruggia held on to the work, at one point stashing it beneath the floorboards of his Paris apartment. A little over two years after the theft, Peruggia made an attempt to sell the work to a dealer in Florence, in an attempt, he believed, to bring back to Italy a treasure that it had lost. The proposed sale backfired when the dealer called the director of the Uffizi Galleries, who obtained the work and called the police. Peruggia went on to spend six months in prison, and the painting was returned to the Louvre. "

"Leonardo da Vinci's Mona Lisa, also known as La Gioconda, is the most famous painting in the world. Quantities of effort and ink have been spent over the years on identifying who she was and deciding what her enigmatic smile signifies, what she says about femininity, if anything, and why she has no eyebrows. Leonardo took the painting with him when he was invited to France by Francis I in 1516. The king bought it and at the French Revolution it was placed in the Louvre. Napoleon took it away to hang in his bedroom, but it was returned to the Louvre afterwards. The theft of this fabulous object in 1911 created a media sensation. The police were as baffled as everyone else. It was thought that modernist enemies of traditional art must be involved and the avant-garde poet and playwright Guillaume Apollinaire was arrested in September and questioned for a week before being released. Pablo Picasso was the next prominent suspect, but there was no evidence against him either. It was not until November 1913, calling himself Leonardo Vincenzo, that Perugia wrote to an art dealer in Florence named Alfredo Geri offering to bring the painting to Italy for a reward of 500,000 lire. He travelled to Florence by train the following month, taking the Mona Lisa in a trunk, hidden beneath a false bottom. After booking into a hotel, which subsequently shrewdly changed its name to the Hotel La Gioconda, he took the painting to Geri's gallery. Geri persuaded him to leave it for expert examination and the police arrested Perugia later that day. "

"And on that morning, with the Louvre still closed, they slipped out of the closet and lifted 200 pounds of painting, frame and protective glass case off the wall. Stripped of its frame and case, the wooden canvas was covered with a blanket and hustled off to the Quai d'Orsay station, where the trio boarded a 7:47 a.m. express train out of the city. They'd stolen the 'Mona Lisa.' Famous, Overnight "

"After the Louvre announced the theft, newspapers all over the world ran headlines about the missing masterpiece. '60 Detectives Seek Stolen 'Mona Lisa,' French Public Indignant,' the New York Times declared. The heist had become something of a national scandal. 'In France, there was a great deal of concern that American millionaires were buying up the legacy of France - the best paintings,' Dorothy Hoobler says. At one point, American tycoon and art lover J.P. Morgan was suspected of commissioning the theft. Pablo Picasso was also considered a suspect, and was questioned. And as tensions were escalating between France and Germany ahead of World War I, 'there were people who thought the Kaiser was behind it,' Hoobler says. After a weeklong shutdown, the Louvre re-opened to mobs of people, Franz Kafka among them, all rushing to see the empty spot that had become a 'mark of shame' for Parisians. Meanwhile, the thieves had made a clean getaway. They were three Italians: two brothers, Vincenzo and Michele Lancelotti, and the ringleader, Vincenzo Perugia. He was a handyman who had worked for the Louvre to install the very same protective glass cases he had ripped from the 'Mona Lisa.' Perugia hoped to sell the painting. But the heist had received so much attention that the 'Mona Lisa' became too hot to hock, Zug says. "

"On the 21st of August 1911, a man named Vincenzo Peruggia committed an infamous art crime that made history. He stole what is now the most famous painting in the world, Leonardo da Vinci's Mona Lisa, 1503, from the Louvre in Paris. The art theft caused a media sensation, and it took police a full two years before they caught up with the real culprit. At one point, they even arrested the writer Guillaume Apollinaire and his friend Pablo Picasso, believing they had masterminded the art heist. But who was Vincenzo Peruggia, how did he steal this famous masterpiece, and did he get away with it? 1. Vincenzo Peruggia Worked at the Louvre Photographic Portrait of Vincenzo Peruggia, the man who stole the Mona Lisa in 1911, via Vintage Everyday "

"Peruggia and his henchmen shamelessly carried the painting out of the Louvre and back to his Parisian apartment. Initially he had hoped he could sell the artwork to a wealthy collector. But when news of the painting's theft hit the worldwide media, and police began offering a large reward for its return, he realized this might prove more difficult than expected. So, he kept the painting stored in a false-bottom trunk while he worked out what to do next. 5. Vincenzo Peruggia Tried to Sell the Mona Lisa to a Dealer in Florence Newspaper article covering the theft of the Mona Lisa in 1911, via Open Culture Two years later, Peruggia decided to have a go at selling the painting to an art dealer in Florence called Alfred Geri, under the false name of Leonardo Vincenzo. Understandably, Geri was immediately suspicious, so he asked the head of an Italian art gallery to join him in the meeting with Peruggia. After confirming the painting's authenticity, the two Italian art experts pretended to go along with Perugia's sale, while secretly calling the police. From there, the painting made its way back to the Louvre, where it still hangs today. Meanwhile, the police caught up with Peruggia, who claimed he only stole the painting so he could return it to its birthplace in Italy. Amazingly, Peruggia's shady criminal activities helped make the Mona Lisa famous around the world. Cite this Article  
NEXT:Leonardo da Vinci: Bio, Works, and Trivia  
ShareTweetShareShareShareCopyEmail By "

Response:

**Box 1.2:** Example of the prompt with few-shot examples used to generate the quoted output for ETa3G queries.

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** Are the director of film Move (1970 Film) and director of film Méditerranée (1963 Film) from the same country?

**Sub-questions:** Who is the director of the film Move (1970 film)? What country are they from? Who is the director of the film Méditerranée (1963 Film)? What country are they from?

**Sources:**

"Stuart Rosenberg (August 11, 1927 - March 15, 2007) was an American film and television director whose motion pictures include 'Cool Hand Luke' (1967), 'Voyage of the Damned' (1976), 'The Amityville Horror' (1979), and 'The Pope of Greenwich Village' (1984). He was noted for his work with actor Paul Newman."

"'Méditerranée' is a 1963 French experimental film directed by Jean-Daniel Pollet with assistance from Volker Schlöndorff. It was written by Philippe Sollers and produced by Barbet Schroeder, with music by Antione Duhamel. The 45 minute film is cited as one of Pollet's most influential films, which according to Jonathan Rosenbaum directly influenced Jean-Luc Goddard's 'Contempt', released later the same year. Footage for the film was shot around the Mediterranean, including at a Greek temple, a Sicilian garden, the sea, and also features a fisherman, a bullfighter, and a girl on an operating table."

"Move is a 1970 American comedy film starring Elliott Gould, Paula Prentiss and Geneviève Waïte, and directed by Stuart Rosenberg. The screenplay was written by Joel Lieber and Stanley Hart, adapted from a novel by Lieber."

"Jean-Daniel Pollet (1936-2004) was a French film director and screenwriter who was most active in the 1960s and 1970s. He was associated with two approaches to filmmaking: comedies which blended burlesque and melancholic elements, and poetic films based on texts by writers such as the French poet Francis Ponge."

**Response:** "Move is a 1970 American comedy film starring Elliott Gould, Paula Prentiss and Geneviève Waïte, and directed by Stuart Rosenberg." "Stuart Rosenberg (August 11, 1927 - March 15, 2007) was an American film and television director." However, "'Méditerranée' is a 1963 French experimental film directed by Jean-Daniel Pollet" and "Jean-Daniel Pollet (1936-2004) was a French film director and screenwriter."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** What nationality is the director of film Wedding Night In Paradise (1950 Film)?

**Sub-questions:** Who is the director of Wedding Night In Paradise (1950 Film)? What is their nationality?

**Sources:**

"Wedding Night in Paradise (1950 film) Wedding Night in Paradise is a 1950 West German musical comedy film directed by Géza von Bolváry and starring Johannes Heesters, Claude Farell and Gretl Schörg. It is an operetta film, based on the 1942 stage work of the same title. The film's sets were designed by Paul Markwitz and Fritz Maurischat."

"Géza von Bolváry Géza von Bolváry (full name Géza Maria von Bolváry-Zahn; 26 December 1897 - 10 August 1961) was a Hungarian actor, screenwriter and film director, who worked principally in Germany and Austria."

**Response:** "Wedding Night in Paradise is a 1950 West German musical comedy film directed by Géza von Bolváry." "Géza von Bolváry (full name Géza Maria von Bolváry-Zahn; 26 December 1897 - 10 August 1961) was a Hungarian actor, screenwriter and film director."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** When did the performer of song A Pretty Girl Milking Her Cow die?

**Sub-questions:** Who performed the song A Pretty Girl Milking Her Cow? When did they die?

**Sources:**

"Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer. During a career that spanned 45 years, she attained international stardom as an actress in both musical and dramatic roles, as a recording artist, and on the concert stage."

"A Pretty Girl Milking Her Cow (Cailín Deas Crúite na mBó in the Irish language) is a traditional 18th-century Irish ballad. The English version is attributed to Thomas Moore (1779-1852). Originally sung in Irish Gaelic, the song was popular through the early 20th century. It enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly. The updated version is true to the original musical air, and incorporated original lyrics by MGM Musical Director Roger Edens, and featured Garland singing the song to George Murphy using some of the original Gaelic lyrics in the first chorus."

**Response:** "Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer." A Pretty Girl Milking Her Cow "enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** Do both films The Falcon (Film) and Valentin The Good have the directors from the same country?

**Sub-questions:** Who is the director of the film Falcon? What country are they from? Who is the director of Valentin The Good? What country are they from?

**Sources:**

"Vatroslav Mimica( born 25 June 1923) is a Croatian film director and screenwriter. Born in Omiš, Mimica had enrolled at the University of Zagreb School of Medicine before the outbreak of World War II. In 1942 he joined Young Communist League of Yugoslavia( SKOJ) and in 1943 he went on to join the Yugoslav Partisans, becoming a member of their medical units. After the war Mimica wrote literary and film reviews, and his career in filmmaking began in 1950 when he became the director of the Jadran Film production studio."

"Martin Frič( 29 March 1902 - 26 August 1968) was a Czech film director, screenwriter and actor. He had more than 100 directing credits between 1929 and 1968, including feature films, shorts and documentary films. Throughout his life, Frič struggled with alcoholism. On the day of the Warsaw Pact invasion of Czechoslovakia in 1968, he attempted suicide, after battling cancer. He died in the hospital five days later."

"Valentin the Good is a 1942 Czech comedy film directed by Martin Frič."

"Banović Strahinja(released internationally as The Falcon) is a 1981 Yugoslavian-German adventure film written and directed by Vatroslav Mimica based on Strahinja Banović, a hero of Serbian epic poetry. It entered the section 'Officina Veneziana' at the 38th Venice International Film Festival."

**Response:** "Banović Strahinja(released internationally as The Falcon) is a 1981 Yugoslavian- German adventure film written and directed by Vatroslav Mimica."

"Vatroslav Mimica( born 25 June 1923) is a Croatian film director and screenwriter."

"Valentin the Good is a 1942 Czech comedy film directed by Martin Frič" and "Martin Frič( 29 March 1902 - 26 August 1968) was a Czech film director, screenwriter and actor."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** What is the date of birth of Mina Gerhardsen's father?

**Sub-questions:** Who is Mina Gerhardsen's father? What date was he born?

**Sources:**

"Mina Gerhardsen (born 14 September 1975) is a Norwegian politician for the Labour Party. She is the daughter of Rune Gerhardsen and Tove Strand, and granddaughter of Einar Gerhardsen. She is married to Eirik Øvre Thorshaug. She led the Oslo branch of Natur og Ungdom from 1993 to 1995, and was deputy leader of the Workers' Youth League in Oslo in 1997. She took the cand.mag. degree at the University of Oslo in 1998, and also has master's degrees in pedagogy from 2000 and human geography from 2003. From 1999 to 2002 she worked part-time as a journalist in 'Dagsavisen' and 'Dagbladet'. She then worked in the Norwegian Red Cross from 2002 to 2004, except for a period from 2003 to 2004 as a journalist in 'Mandag Morgen'. She was hired as a political advisor in the Norwegian Office of the Prime Minister in 2005, when Stoltenberg's Second Cabinet assumed office. In 2009 she was promoted to State Secretary. In 2011 she changed to the Ministry of Culture."

"Rune Gerhardsen (born 13 June 1946) is a Norwegian politician, representing the Norwegian Labour Party. He is a son of Werna and Einar Gerhardsen, and attended Oslo Cathedral School. He chaired the Workers' Youth League from 1973 to 1975 and chaired the City Government of Oslo from 1992 to 1997. He chaired the Norwegian Skating Association from 1986 to 1990 and 2001 to 2003 and also 2013 to 2017."

**Response:** "Mina Gerhardsen (born 14 September 1975) is a Norwegian politician for the Labour Party. She is the daughter of Rune Gerhardsen and Tove Strand." "Rune Gerhardsen (born 13 June 1946) is a Norwegian politician."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to

the sources in your response. The information to answer the query is in the provided sources.

**Query:** When is the composer of film Sruthilayalu 's birthday?

**Sub-questions:** Who was the composer for film Sruthilayalu? When is their birthday?

**Sources:**

"K. V. Mahadevan Krishnankoil Venkadachalam Mahadevan (14 March 1918 - 21 June 2001) was an Indian composer, singer-songwriter, music producer, and musician known for his works in Tamil cinema, Telugu cinema, Kannada cinema, and Malayalam cinema. He is best known for his contributions in works such as 'Manchi Manasulu' (1962), 'Lava Kusa' (1963), 'Thiruvilaiyadal' (1965), 'Saraswathi Sabatham' (1966), 'Kandan Karunai' (1967), 'Thillana Mohanambal' (1968), 'Adimai Penn' (1969), 'Balaraju Katha' (1970), 'Athiparasakthi' (1971), 'Sankarabharanam' (1979), 'Saptapadi' (1981), 'Sirivennela' (1986), 'Sruthilayalu' (1987), 'Pelli Pustakam' (1991), and 'Swathi Kiranam' (1992)."

"Sruthilayalu is a 1987 Indian Telugu-language musical drama film, written and directed by K. Viswanath. The film stars Rajasekhar and Sumalata with soundtrack composed by K. V. Mahadevan. The film garnered Nandi Awards for Best feature film; Best direction, and a Filmfare Award for Best Director - Telugu. The film was premiered at the International Film Festival of India, and AISFM Film Festival. The film was dubbed in Tamil as 'Isaikku Oru Koil'."

**Response:** "Sruthilayalu is a 1987 Indian Telugu-language musical drama film, written and directed by K. Viswanath. The film stars Rajasekhar and Sumalata with soundtrack composed by K. V. Mahadevan." "Krishnankoil Venkadachalam Mahadevan (14 March 1918 - 21 June 2001) was an Indian composer, singer-songwriter, music producer, and musician known for his works in Tamil cinema, Telugu cinema, Kannada cinema, and Malayalam cinema."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** When did Fatima Bint Mubarak Al Ketbi's husband die?

**Sub-questions:** Who is Fatima Bint Mubarak Al Ketbi's husband? When did they die?

**Sources:**

"Sheikh Zayed bin Sultan Al Nahyan ; 6 May 1918 - 2 November 2004) was the ruler of Abu Dhabi for more than 30 years (6 August 1966 - 2 November 2004). He was the founding father and the principal driving force behind the formation of the United Arab Emirates."

"Fatima bint Mubarak Al Ketbi is the third wife of Sheikh Zayed bin Sultan Al Nahyan, the founder and inaugural president of United Arab Emirates, and late emir (ruler) of Abu Dhabi. She is referred to as the mother of sheikhs and as the Mother of the UAE."

**Response:** "Fatima bint Mubarak Al Ketbi is the third wife of Sheikh Zayed bin Sultan Al Nahyan." "Sheikh Zayed bin Sultan Al Nahyan ; 6 May 1918 - 2 November 2004) was the ruler of Abu Dhabi for more than 30 years (6 August 1966 - 2 November 2004)."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in



your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** Who is the mother-in-law of Andrew Murray (Scottish Soldier)?

**Sub-questions:** Who is Andrew Murray's spouse? Who is their mother?

**Sources:**

"Christina Bruce (c. 1278 - 1356/1357), also known as Christina de Brus, was a daughter of Marjorie, Countess of Carrick, and her husband, Robert de Brus, 'jure uxoris' Earl of Carrick, as well as a sister of Robert the Bruce, King of Scots. It is presumed that she and her siblings were born at Turnberry Castle in Carrick."

"Sir Andrew Murray (1298-1338), also known as Sir Andrew Moray, or Sir Andrew de Moray, was a Scottish military and political leader who supported David II of Scotland against Edward Balliol and King Edward III of England during the so-called Second War of Scottish Independence. He held the lordships of Avoch and Petty in north Scotland, and Bothwell in west-central Scotland. In 1326 he married Christina Bruce, a sister of King Robert I of Scotland."

**Response:** Sir Andrew Murray "married Christina Bruce, a sister of King Robert I of Scotland." "Christina Bruce (c. 1278 - 1356/1357), also known as Christina de Brus, was a daughter of Marjorie, Countess of Carrick, and her husband, Robert de Brus, 'jure uxoris' Earl of Carrick, as well as a sister of Robert the Bruce, King of Scots."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** When did the performer of song A Pretty Girl Milking Her Cow die?

**Sub-questions:** Who performed the song A Pretty Girl Milking Her Cow? When did they die?

**Sources:**

"Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer. During a career that spanned 45 years, she attained international stardom as an actress in both musical and dramatic roles, as a recording artist, and on the concert stage."

"A Pretty Girl Milking Her Cow (Cailín Deas Crúite na mBó in the Irish language) is a traditional 18th-century Irish ballad. The English version is attributed to Thomas Moore (1779-1852). Originally sung in Irish Gaelic, the song was popular through the early 20th century. It enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly. The updated version is true to the original musical air, and incorporated original lyrics by MGM Musical Director Roger Edens, and featured Garland singing the song to George Murphy using some of the original Gaelic lyrics in the first chorus."

**Response:** "Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer." A Pretty Girl Milking Her Cow "enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query;

be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** What is the date of birth of the director of film Runway (2010 Film)?

**Sub-questions:** Who is the director of the film Runway (2010 Film)? What is their date of birth?

**Sources:**

"Runway is a 2010 Bangladeshi drama film directed by Tareque Masud with his wife Catherine Masud. It was his last feature film. "

"Tareque Masud( 6 December 1956 - 13 August 2011) was a Bangladeshi independent film director, film producer, screenwriter and lyricist. He first found success with the films' Muktir Gaan'( 1995) and' Matir Moina'( 2002), for which he won three international awards, including the International Critics' FIPRESCI Prize, in the Directors' Fortnight section outside competition at the 2002 Cannes Film Festival. The film became Bangladesh's first film to compete for the Academy Award for Best Foreign Language Film. Masud died in a road accident on 13 August 2011 while returning to Dhaka from Manikganj on the Dhaka- Aricha highway after visiting a filming location. Masud was working on' Kagojer Phool'( The Paper Flower). In 2012, he posthumously received Ekushey Padak, the highest civilian award of Bangladesh. In 2013, New York University Asian/ Pacific/ American Institute, and South Asia Solidarity Initiative, hosted the first North American retrospective of his films. "

**Response:**

**Box 1.3:** Example of the prompt with few-shot examples used to generate the quoted output for 2WikiMH queries.

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** What can you do to prevent migraine with brainstem aura?

**Sub-questions:** What can you do to prevent migraine with brainstem aura?

**Sources:**

"Symptoms of MBA can also seem like the signs of other more serious conditions, like seizure disorders, stroke, meningitis, or brain tumors. To rule those out, you'll need to see a brain doctor, called a neurologist. He'll give you a thorough exam and ask you questions about your symptoms. He'll may also use tests like MRI, CT scans, and nerve tests to see what's causing your symptoms. Treatments for MBA generally aim to relieve symptoms of pain and nausea. You might take pain relievers such as acetaminophen, ibuprofen, and naproxen, as well as nausea medicines such as chlorpromazine, metoclopramide, and prochlorperazine. Your doctor may prescribe a medication that treats regular migraines, such as triptans. To keep from getting a MBA, it helps to avoid the things that usually cause one."

"Keep a journal of your attacks so you can figure out the things that trigger them. It also helps to live a healthy lifestyle. That means you need to: Get enough sleep. Limit your stress. Exercise daily. Diet can also affect migraines. Do these things: Eat a balanced diet. Avoid drugs and alcohol. Don't skip meals. Limit

caffeine. Avoid any foods that have been triggers. Some common food triggers include: Dairy Wheat Chocolate Eggs Rye Tomatoes Oranges"

"Along with these changes, If you don't respond to other treatments and you have 4 or more migraine days a month, your doctor may suggest preventive medicines. You can take these regularly to reduce the severity or frequency of the headaches. These include seizure medicines, blood pressure medicines (like beta blockers and calcium channel blockers), and some antidepressants. CGRP inhibitors are a new class of preventive medicine that your doctor may recommend if other medicines don't help."

**Response:** To prevent migraine with brainstem aura, "it helps to avoid the things that usually cause one." This includes being sure to "Get enough sleep," "Limit your stress," and "Exercise daily." Additionally, "Eat a balanced diet," "Avoid drugs and alcohol," "Don't skip meals," and "Limit caffeine." "Avoid any foods that have been triggers." Furthermore, "If you don't respond to other treatments and you have 4 or more migraine days a month, your doctor may suggest preventive medicines," including "seizure medicines, blood pressure medicines (like beta blockers and calcium channel blockers), and some antidepressants." Also, "CGRP inhibitors are a new class of preventive medicine."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** What should I do if my child has a biting injury?

**Sub-questions:** What should I do if my child has a biting injury?

**Sources:**

"If your child is prone to biting, keep an eye on any playmates and step in when an altercation appears to be brewing. Even with your best prevention efforts, biting incidents might still occur. When your child bites, firmly let your child know that this behavior is not acceptable by saying, 'No. We don't bite!' Explain that biting hurts the other person. Then remove your child from the situation and give the child time to calm down. You might have heard from other parents that if your child bites you, bite your child back. This isn't good advice. Children learn by imitation. If you bite your child, the child is going to get the impression that this behavior is acceptable and he or she will be more likely to do it again. The same goes for hitting a child for biting. If you are unable to get your child to stop biting, the behavior could begin to have an impact on school and relationships. You or another adult might have to closely supervise interactions between your child and other kids. When biting becomes a habit or continues past age 4 or 5, it might stem from a more serious emotional problem. Talk to your child's health care provider, or enlist the help of a child psychologist or therapist."

"[1] The first thing to do for any biting injury is to wash the area with soap and water. [2] Even little teeth can break the skin. [3] If the bite is bleeding and the wound appears to be deep, call your child's doctor. [4] The bite may need medical treatment, which could include antibiotics or a tetanus shot, or both."

**Response:** "The first thing to do for any biting injury is to wash the area with soap and water." "Even little teeth can break the skin." "If the bite is bleeding and the wound appears to be deep, call your child's doctor." "The bite may need medical treatment, which could include antibiotics or a tetanus shot, or both."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation

from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** Can I give cough and cold medicines to children under 4?

**Sub-questions:** Can I give cough and cold medicines to children under 4?

**Sources:**

"There are over 200 cold viruses ready to lay your family low with nasal congestion, sore throat, and cough. Combat cold symptoms with these home remedies. Get rest. Rest helps the body focus its energy on getting well, so keep kids home from school to keep them warm, and well-rested."

"Drink lots of fluids. Replenish liquids lost from fever, vomiting and diarrhea. Fluids also help loosen mucus. Use a humidifier. A humidifier in your child's room can keep the air moist and break up nasal and chest congestion. Talk to your pediatrician before giving OTC cold and cough medicines. These medicines should not be given to children under 4 years of age, according to the FDA and the drug makers. Also, evidence indicates medicines such as antihistamines, decongestants, and cough medicines don't really help, but they could pose a small risk of serious side effects."

**Response:** "Talk to your pediatrician before giving OTC cold and cough medicines." "These medicines should not be given to children under 4 years of age, according to the FDA and the drug makers."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** How do I treat a blister?

**Sub-questions:** How do I treat a blister?

**Sources:**

"Most blisters caused by friction or minor burns do not require a doctor's care. New skin will form underneath the affected area and the fluid is simply absorbed."

"Do not puncture a blister unless it is large, painful, or likely to be further irritated. The fluid-filled blister keeps the underlying skin clean, which prevents infection and promotes healing. But if you need to pop a blister or it pops by itself: Use a sterilized needle (to sterilize it, put the point or edge in a flame until it is red hot, or rinse it in alcohol). Wash your hands and the area thoroughly, then make a small hole; the fluid will drain on its own. If the fluid is white or yellow, the blister may be infected and needs medical attention. Do not remove the skin over a broken blister. The new skin underneath needs this protective cover. Apply an antibiotic ointment or cream. Look for signs of infection to develop, including pus drainage, red or warm skin surrounding the blister, or red streaks leading away from the blister."

"Wear work gloves. Jobs you do only occasionally, such as shoveling snow or raking leaves, are great for raising a blister or two. Wear shoes that fit and are comfortable. New shoes should be broken in gradually. Wear padded socks or put some adhesive padding where your foot is rubbing."

**Response:** "Most blisters caused by friction or minor burns do not require a doctor's care." "New skin will form underneath the affected area and the fluid is simply

absorbed." "Do not puncture a blister unless it is large, painful, or likely to be further irritated." "The fluid-filled blister keeps the underlying skin clean, which prevents infection and promotes healing" "But if you need to pop a blister or it pops by itself: Use a sterilized needle (to sterilize it, put the point or edge in a flame until it is red hot, or rinse it in alcohol)." "Wash your hands and the area thoroughly, then make a small hole; the fluid will drain on its own." "If the fluid is white or yellow, the blister may be infected and needs medical attention." "Do not remove the skin over a broken blister." "The new skin underneath needs this protective cover." "Apply an antibiotic ointment or cream." "Look for signs of infection to develop, including pus drainage, red or warm skin surrounding the blister, or red streaks leading away from the blister."

**Instruction:** Respond to the following query using word-for-word quotes from the sources provided below. The following sub-questions will help you answer the query; be sure that your response to the query answers each sub-question using a quotation from a source. Clearly indicate the quotes to avoid plagiarizing! Be concise in your response and focus on information that responds to the query. Do not refer to the sources in your response. The information to answer the query is in the provided sources.

**Query:** What medications can I use to lessen my child's teething pain?

**Sub-questions:** What medications can I use to lessen my child's teething pain?

**Sources:**

"Teething pain can be hard for babies and parents alike. Treatment at home can help. Your child has a fever of 101 ° F or higher, has diarrhea, is dehydrated, or seems especially cranky; these are not typical symptoms of teething. Use a firm rubber teether. Avoid teethers filled with liquid, which can leak, or freezable teethers, which may be too cold or hard. Never tie a teether around a baby's neck - it's a choking hazard. Gently massage the gums with a cool wet washcloth or a clean finger. If your child is eating solid foods, offer cold applesauce or yogurt. Use baby acetaminophen ( Tylenol) to dull pain. Do not use ibuprofen unless the baby is at least 6 months old. Do not use topical pain medicine that contains benzocaine. They could cause dangerous side effects. Benzocaine can be found in over-the-counter products such as Baby Orajel. Keep a cloth with you to wipe away drool from baby's chin."

**Response:**

**Box 1.4:** Example of the prompt with few-shot examples used to generate the quoted output for MASH queries.

## 1.2 Prompts for the Paraphrased Generation

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What's the life cycle of a frog?

**Response:** The life cycle of a frog consists of three stages: egg, larva, and adult. As the frog grows, it moves through these stages in a process known as metamorphosis. During the egg stage, the yolk in each egg splits into more and more cells and begins to take the form of a tadpole, the larva of a frog. Within one to three weeks, the egg is ready to hatch, and a tiny tadpole breaks free. In the larval stage, [t]adpoles, frogs' larvae, have rudimentary gills, a mouth, and a long tail. As they grow, tadpoles feed on algae and other vegetation, and eventually, they grow back legs, then front legs too! Soon after, their body starts to change shape, and

they're able to start eating insects. Next, the tadpoles' tails shrink away, and skin grows over their gills, as they develop lungs and eardrums!

**Paraphrased Response:** The stages of a frog's life cycle are egg, larva, and adult. Growing through these stages is a process called metamorphosis. In a frog egg, the yolk splits into many cells which are the beginnings of a tadpole, or a frog larva. In one to three weeks, a small tadpole hatches from the egg. During the larval stage, tadpoles, or frogs' larvae, are equipped with simple gills, a mouth, and a lengthy tail. As they develop, tadpoles consume plants and algae and then grow back legs, followed by front legs. Shortly afterward, their body begins to shift in shape and they gain the ability to consume insects. Then, the tails of the tadpoles grow smaller and skin develops over their gills while they grow eardrums and lungs.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What are the benefits of hyaluronic acid for skin care?

**Response:** Hyaluronic acid helps keep things hydrated. It helps skin stretch and flex and reduces skin wrinkles and lines. Hyaluronic acid is also proven to help wounds heal faster and can reduce scarring.

**Paraphrased Response:** Hyaluronic acid helps to retain moisture. It makes it easier for skin to be flexible and diminishes skin lines and wrinkles. Hyaluronic acid has been shown to decrease the recovery time of wounds and can lessen scarring.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What is a heirloom tomato?

**Response:** Many heirloom tomatoes are sweeter and lack a genetic mutation that gives tomatoes a uniform red color at the cost of the fruit's taste. True heirlooms must be 'old' because they have been a variety for anywhere between 25 and 50 years.

**Paraphrased Response:** Unlike tomatoes that carry a genetic mutation that makes them look consistently red at the expense of their flavor, many heirloom tomatoes taste sweeter. Genuine heirloom tomatoes have to be old due to being a variety over the last 25 to 50 years.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What's the flavor of juicy fruit gum?

**Response:** the mixture of fruit flavors in Juicy Fruit is comprised of predominately lemon, orange, pineapple, and banana notes.

**Paraphrased Response:** Juicy Fruit flavor is a blend of mostly orange, lemon, banana, and pineapple flavors.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.



**Query:** Explain to a third-grader: who stole the mona lisa from the louvre in 1911

**Response:** The man who stole her, Vincenzo Peruggia, had once worked at the Louvre and had, ironically, helped build a protective case for the 16th century masterpiece.

**Paraphrased Response:**

**Box 1.5:** Example of the prompt with few-shot examples used to generate the paraphrased output for NQ and ETa3G queries.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** Are the director of film Move (1970 Film) and director of film Méditerranée (1963 Film) from the same country?

**Response:** Move (1970 Film) was directed by Stuart Rosenberg, who was born on August 11, 1927, and passing on March 15, 2007, and was renowned for his work as a director in both American film and television. On the other hand, Méditerranée was directed by Jean-Daniel Pollet who lived from 1936 to 2004 and was celebrated as a French filmmaker and scriptwriter.

**Paraphrased Response:** The film 'Move' (1970) was directed by Stuart Rosenberg, born on August 11, 1927, and who died on March 15, 2007. He was known for his distinguished career in American cinema and television. Conversely, Jean-Daniel Pollet (1936-2004), a French filmmaker and screenwriter recognized for his notable work, directed 'Méditerranée'.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What nationality is the director of film Wedding Night In Paradise (1950 Film)?

**Response:** Wedding Night in Paradise is a 1950 West German musical comedy film directed by Géza von Bolváry. Géza von Bolváry (full name Géza Maria von Bolváry-Zahn; 26 December 1897 - 10 August 1961) was a Hungarian actor, screenwriter and film director.

**Paraphrased Response:** Géza von Bolváry directed the 1950 West German musical comedy 'Wedding Night in Paradise.' Born on December 26, 1897, Géza Maria von Bolváry-Zahn was a Hungarian talent known for his work as an actor, screenwriter, and director, and he passed away on August 10, 1961.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** When did the performer of song A Pretty Girl Milking Her Cow die?

**Response:** Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer. A Pretty Girl Milking Her Cow enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly.

**Paraphrased Response:** American actress, singer, and dancer Judy Garland, originally named Frances Ethel Gumm, lived from June 10, 1922, to June 22, 1969. Notably, her rendition of 'A Pretty Girl Milking Her Cow' experienced a resurgence in popularity when her updated swing version was showcased in the 1940 film 'Little Nellie Kelly'.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** Do both films The Falcon (Film) and Valentin The Good have the directors from the same country?

**Response:** Banović Strahinja( released internationally as The Falcon) is a 1981 Yugoslavian- German adventure film written and directed by Vatroslav Mimica. Vatroslav Mimica( born 25 June 1923) is a Croatian film director and screenwriter. Valentin the Good is a 1942 Czech comedy film directed by Martin Frič and Martin Frič( 29 March 1902 - 26 August 1968) was a Czech film director, screenwriter and actor.

**Paraphrased Response:** 'Banović Strahinja' (internationally known as 'The Falcon') is an adventure film from 1981, produced as a Yugoslavian-German collaboration and crafted by writer and director Vatroslav Mimica. Vatroslav Mimica, born on June 25, 1923, is a screenwriter and director from Croatia. Directed by Martin Frič, 'Valentin the Good' is a Czech comedy film that premiered in 1942. Martin Frič, born on March 29, 1902, and passed away on August 26, 1968, was an actor, screenwriter, and director from Czechia.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What is the date of birth of Mina Gerhardsen's father?

**Response:** Mina Gerhardsen (born 14 September 1975) is a Norwegian politician for the Labour Party. She is the daughter of Rune Gerhardsen and Tove Strand. Rune Gerhardsen (born 13 June 1946) is a Norwegian politician.

**Paraphrased Response:** Mina Gerhardsen, born on September 14, 1975, is a politician from Norway affiliated with the Labour Party. She is the daughter of Rune Gerhardsen and Tove Strand. Rune Gerhardsen, born on June 13, 1946, is also a Norwegian politician.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** When is the composer of film Sruthilayalu 's birthday?

**Response:** Sruthilayalu is a 1987 Indian Telugu-language musical drama film, written and directed by K. Viswanath. The film stars Rajasekhar and Sumalata with soundtrack composed by K. V. Mahadevan. Krishnankoil Venkadachalam Mahadevan (14 March 1918 - 21 June 2001) was an Indian composer, singer-songwriter, music producer, and musician known for his works in Tamil cinema, Telugu cinema, Kannada cinema, and Malayalam cinema.

**Paraphrased Response:** 'Sruthilayalu' is a 1987 musical drama film in the Telugu language from India, crafted by writer and director K. Viswanath. The movie features Rajasekhar and Sumalata in leading roles, with a soundtrack created by K. V.

Mahadevan. Krishnankoil Venkadachalam Mahadevan (March 14, 1918 - June 21, 2001) was an Indian singer-songwriter, musician, composer, and music producer renowned for his contributions to Telugu, Tamil, Malayalam, and Kannada cinema.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** When did Fatima Bint Mubarak Al Ketbi's husband die?

**Response:** Fatima bint Mubarak Al Ketbi is the third wife of Sheikh Zayed bin Sultan Al Nahyan. Sheikh Zayed bin Sultan Al Nahyan ; 6 May 1918 - 2 November 2004) was the ruler of Abu Dhabi for more than 30 years (6 August 1966 - 2 November 2004).

**Paraphrased Response:** Fatima bint Mubarak Al Ketbi is the wife of Sheikh Zayed bin Sultan Al Nahyan from his third marriage. Sheikh Zayed bin Sultan Al Nahyan, born on May 6, 1918, and passing on November 2, 2004, ruled Abu Dhabi for over 30 years, from August 6, 1966, to November 2, 2004.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** Who is the mother-in-law of Andrew Murray (Scottish Soldier)?

**Response:** Sir Andrew Murray married Christina Bruce, a sister of King Robert I of Scotland. Christina Bruce (c. 1278 - 1356/1357), also known as Christina de Brus, was a daughter of Marjorie, Countess of Carrick, and her husband, Robert de Brus, 'jure uxoris' Earl of Carrick, as well as a sister of Robert the Bruce, King of Scots.

**Paraphrased Response:** Sir Andrew Murray took Christina Bruce, sister of King Robert I of Scotland, as his wife. Born around 1278 and living until 1356/1357, Christina Bruce, also called Christina de Brus, was the daughter of Marjorie, Countess of Carrick, and Robert de Brus, Earl of Carrick by virtue of his marriage. She was also the sister of Robert the Bruce, the King of Scots.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** When did the performer of song A Pretty Girl Milking Her Cow die?

**Response:** Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer. A Pretty Girl Milking Her Cow enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly.

**Paraphrased Response:** Frances Ethel Gumm, known professionally as Judy Garland (June 10, 1922 - June 22, 1969), was a multifaceted American performer, excelling in acting, singing, and dancing. The song 'A Pretty Girl Milking Her Cow' experienced a resurgence with a modern swing rendition performed by Irish-American singer and actress Judy Garland, featured in the 1940 movie 'Little Nellie Kelly'.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of

the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What is the date of birth of the director of film Runway (2010 Film)?

**Response:** Runway is a 2010 Bangladeshi drama film directed by Tareque Masud. Tareque Masud( 6 December 1956 - 13 August 2011) was a Bangladeshi independent film director, film producer, screenwriter and lyricist.

**Paraphrased Response:**

**Box 1.6:** Example of the prompt with few-shot examples used to generate the paraphrased output for 2WikiMH queries.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What can you do to prevent migraine with brainstem aura?

**Response:** To prevent migraine with brainstem aura, it helps to avoid the things that usually cause one. This includes being sure to Get enough sleep, Limit your stress, and Exercise daily. Additionally, Eat a balanced diet, Avoid drugs and alcohol, Don't skip meals, and Limit caffeine. Avoid any foods that have been triggers. Furthermore, If you don't respond to other treatments and you have 4 or more migraine days a month, your doctor may suggest preventive medicines, including seizure medicines, blood pressure medicines (like beta blockers and calcium channel blockers), and some antidepressants. Also, CGRP inhibitors are a new class of preventive medicine.

**Paraphrased Response:** To avert migraines with brainstem aura, steering clear of common triggers is beneficial. This encompasses getting adequate sleep, minimizing stress, and engaging in daily physical activity. Moreover, maintaining a nutritious diet, abstaining from drugs and alcohol, not missing meals, reducing caffeine intake, and steering clear of any known food triggers are good precautions. Additionally, if you experience four or more days of migraines a month and haven't found relief with other treatments, your healthcare provider might recommend preventive medications. Such medications may include seizure medicine, blood pressure medicines (including beta blockers and calcium channel blockers), and certain antidepressants. Additionally, there is a new class of preventative medication called CGRP inhibitors.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What should I do if my child has a biting injury?

**Response:** The first thing to do for any biting injury is to wash the area with soap and water. Even little teeth can break the skin. If the bite is bleeding and the wound appears to be deep, call your child's doctor. The bite may need medical treatment, which could include antibiotics or a tetanus shot, or both.

**Paraphrased Response:** Initially, cleanse the bitten area thoroughly using soap and water, as even small teeth can penetrate the skin. Should the bite result in bleeding and a deep injury, consult your child's physician. Such injuries might necessitate medical intervention, potentially involving antibiotics, a tetanus injection, or both.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** Can I give cough and cold medicines to children under 4?

**Response:** Talk to your pediatrician before giving OTC cold and cough medicines. These medicines should not be given to children under 4 years of age, according to the FDA and the drug makers.

**Paraphrased Response:** Consult your pediatrician before giving your child over-the-counter cough and cold medicines. According to both the FDA and drug makers, children under 4 years of age should not take OTC cold and cough medicines.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** How do I treat a blister?

**Response:** Most blisters caused by friction or minor burns do not require a doctor's care. New skin will form underneath the affected area and the fluid is simply absorbed. Do not puncture a blister unless it is large, painful, or likely to be further irritated. The fluid-filled blister keeps the underlying skin clean, which prevents infection and promotes healing. But if you need to pop a blister or it pops by itself: Use a sterilized needle (to sterilize it, put the point or edge in a flame until it is red hot, or rinse it in alcohol). Wash your hands and the area thoroughly, then make a small hole; the fluid will drain on its own. If the fluid is white or yellow, the blister may be infected and needs medical attention. Do not remove the skin over a broken blister. The new skin underneath needs this protective cover. Apply an antibiotic ointment or cream. Look for signs of infection to develop, including pus drainage, red or warm skin surrounding the blister, or red streaks leading away from the blister.

**Paraphrased Response:** Blisters resulting from friction or minor burns generally don't necessitate medical intervention. Underneath the blister, new skin will develop, and the fluid will naturally be reabsorbed. It's advisable not to burst a blister unless it's sizable, causing discomfort, or at risk of additional irritation. The blister's fluid acts as a barrier, safeguarding the skin beneath from infection and aiding in the healing process. However, if there's a need to drain a blister, or if it bursts on its own, ensure to use a needle that has been sterilized either by heating it until it glows red or by cleansing it with alcohol. Before and after the procedure, clean your hands and the affected area thoroughly, then puncture the blister gently to let the fluid out without forcing it. Should the fluid appear white or yellow, it's indicative of an infection, and medical advice should be sought. Avoid peeling the skin off an opened blister as the new skin underneath requires this natural bandage for protection. Applying an antibacterial ointment or cream is recommended. Stay vigilant for signs of infection such as pus, reddening or warmth around the blister, or red lines emanating from it.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase each sentence in the response using a more fluent and useful wording to convey the same information. In other words, paraphrase each sentence of the response as an improved new sentence, with respect to the query. Do not refer to the response in your revised response.

**Query:** What medications can I use to lessen my child's teething pain?

**Response:** Use baby acetaminophen (Tylenol) to dull pain. Do not use ibuprofen unless the baby is at least 6 months old.

**Paraphrased Response:**

**Box 1.7:** Example of the prompt with few-shot examples used to generate the paraphrased output for MASH queries.

### 1.3 Prompts for the Entailed Generation

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What's the life cycle of a frog?

**Response:** The stages of a frog's life cycle are egg, larva, and adult. Growing through these stages is a process called metamorphosis. In a frog egg, the yolk splits into many cells which are the beginnings of a tadpole, or a frog larva. In one to three weeks, a small tadpole hatches from the egg. During the larval stage, tadpoles, or frogs' larvae, are equipped with simple gills, a mouth, and a lengthy tail. As they develop, tadpoles consume plants and algae and then grow back legs, followed by front legs. Shortly afterward, their body begins to shift in shape and they gain the ability to consume insects. Then, the tails of the tadpoles grow smaller and skin develops over their gills while they grow eardrums and lungs.

**Revised Response:** The stages of a frog's life cycle are egg, larva, and adult. Growing through these stages is a process called metamorphosis. Cells in the yolk of a frog egg form a tadpole, or a frog larva. In one to three weeks, a small tadpole hatches from the egg. During the larval stage, tadpoles are equipped with simple gills, a mouth, and a lengthy tail. As they develop, tadpoles consume plants and algae and then grow back legs, followed by front legs. Shortly afterward, they gain the ability to consume insects. Then, the tails of the tadpoles shrink, they lose their gills, and they grow eardrums and lungs.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What are the benefits of hyaluronic acid for skin care?

**Response:** Hyaluronic acid helps to retain moisture. It makes it easier for skin to be flexible and diminishes skin lines and wrinkles. Hyaluronic acid has been shown to decrease the recovery time of wounds and can lessen scarring.

**Revised Response:** Hyaluronic acid helps to retain moisture. It makes it easier for skin to be flexible and diminishes wrinkles. Hyaluronic acid may decrease the recovery time of wounds and can lessen scarring.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What is a heirloom tomato?



**Response:** Unlike tomatoes that carry a genetic mutation that makes them look consistently red at the expense of their flavor, many heirloom tomatoes taste sweeter. Genuine heirloom tomatoes have to be old due to being a variety over the last 25 to 50 years.

**Revised Response:** Unlike tomatoes that carry a genetic mutation that makes them look consistently red at the expense of their flavor, many heirloom tomatoes taste sweeter. Genuine heirloom tomatoes have been a variety over the last 25 to 50 years.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What's the flavor of juicy fruit gum?

**Response:** the mixture of fruit flavors in Juicy Fruit is comprised of predominately lemon, orange, pineapple, and banana notes.

**Revised Response:** Juicy Fruit flavor is a blend of mostly orange, lemon, banana, and pineapple flavors.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** Explain to a third-grader: who stole the mona lisa from the louvre in 1911

**Response:** The man who stole her, Vincenzo Peruggia, had once worked at the Louvre and had, ironically, helped build a protective case for the 16th century masterpiece.

**Revised Response:**

**Box 1.8:** Example of the prompt with few-shot examples used to generate the entailed output for NQ and ETa3G queries.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** Are the director of film Move (1970 Film) and director of film Méditerranée (1963 Film) from the same country?

**Response:** Move (1970 Film) was directed by Stuart Rosenberg, who was born on August 11, 1927, and passing on March 15, 2007, and was renowned for his work as a director in both American film and television. On the other hand, Méditerranée was directed by Jean-Daniel Pollet who lived from 1936 to 2004 and was celebrated as a French filmmaker and scriptwriter.

**Revised Response:** No; Stuart Rosenberg directed 'Move' and was American while Jean-Daniel Pollet directed 'Méditerranée' and was French.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their

logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What nationality is the director of film Wedding Night In Paradise (1950 Film)?

**Response:** Wedding Night in Paradise is a 1950 West German musical comedy film directed by Géza von Bolváry. Géza von Bolváry (full name Géza Maria von Bolváry-Zahn; 26 December 1897 - 10 August 1961) was a Hungarian actor, screenwriter and film director.

**Revised Response:** Géza von Bolváry directed 'Wedding Night in Paradise' and was Hungarian.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** When did the performer of song A Pretty Girl Milking Her Cow die?

**Response:** Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer. A Pretty Girl Milking Her Cow enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly.

**Revised Response:** Judy Garland, the performer of 'A Pretty Girl Milking Her Cow' died on June 22, 1969.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** Do both films The Falcon (Film) and Valentin The Good have the directors from the same country?

**Response:** Banović Strahinja( released internationally as The Falcon) is a 1981 Yugoslavian- German adventure film written and directed by Vatroslav Mimica. Vatroslav Mimica( born 25 June 1923) is a Croatian film director and screenwriter. Valentin the Good is a 1942 Czech comedy film directed by Martin Frič and Martin Frič( 29 March 1902 - 26 August 1968) was a Czech film director, screenwriter and actor.

**Revised Response:** No; the director of 'The Falcon' is Vatroslav Mimica, who is from Croatia, while 'Valentin the Good' was directed by Martin Frič, from Czechia.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What is the date of birth of Mina Gerhardsen's father?

**Response:** Mina Gerhardsen (born 14 September 1975) is a Norwegian politician for the Labour Party. She is the daughter of Rune Gerhardsen and Tove Strand. Rune Gerhardsen (born 13 June 1946) is a Norwegian politician.

**Revised Response:** Mina Gerhardsen's father, Rune Gerhardsen, was born on June 13, 1946.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** When is the composer of film Sruthilayalu 's birthday?

**Response:** Sruthilayalu is a 1987 Indian Telugu-language musical drama film, written and directed by K. Viswanath. The film stars Rajasekhar and Sumalata with soundtrack composed by K. V. Mahadevan. Krishnankoil Venkadachalam Mahadevan (14 March 1918 - 21 June 2001) was an Indian composer, singer-songwriter, music producer, and musician known for his works in Tamil cinema, Telugu cinema, Kannada cinema, and Malayalam cinema.

**Revised Response:** The composer of 'Sruthilayalu', Krishnankoil Venkadachalam Mahadevan, was born on March 14, 1918.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** When did Fatima Bint Mubarak Al Ketbi's husband die?

**Response:** Fatima bint Mubarak Al Ketbi is the third wife of Sheikh Zayed bin Sultan Al Nahyan. Sheikh Zayed bin Sultan Al Nahyan ; 6 May 1918 - 2 November 2004) was the ruler of Abu Dhabi for more than 30 years (6 August 1966 - 2 November 2004).

**Revised Response:** Fatima bint Mubarak Al Ketbi's husband, Sheikh Zayed bin Sultan Al Nahyan, passed away on November 2, 2004.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** Who is the mother-in-law of Andrew Murray (Scottish Soldier)?

**Response:** Sir Andrew Murray married Christina Bruce, a sister of King Robert I of Scotland. Christina Bruce (c. 1278 - 1356/1357), also known as Christina de Brus, was a daughter of Marjorie, Countess of Carrick, and her husband, Robert de Brus, 'jure uxoris' Earl of Carrick, as well as a sister of Robert the Bruce, King of Scots.

**Revised Response:** Sir Andrew Murray married Christina Bruce, making her mother, Marjorie, Countess of Carrick, his mother-in-law.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** When did the performer of song A Pretty Girl Milking Her Cow die?

**Response:** Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer. A Pretty Girl Milking Her Cow enjoyed a

revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly.

**Revised Response:** The song 'A Pretty Girl Milking Her Cow' became especially popular from its rendition by Judy Garland, who passed away on June 22, 1969.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What is the date of birth of the director of film Runway (2010 Film)?

**Response:** Runway is a 2010 Bangladeshi drama film directed by Tareque Masud. Tareque Masud( 6 December 1956 - 13 August 2011) was a Bangladeshi independent film director, film producer, screenwriter and lyricist.

**Revised Response:**

**Box 1.9:** Example of the prompt with few-shot examples used to generate the entailed output for 2WikiMH queries.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What can you do to prevent migraine with brainstem aura?

**Response:** To prevent migraine with brainstem aura, it helps to avoid the things that usually cause one. This includes being sure to Get enough sleep, Limit your stress, and Exercise daily. Additionally, Eat a balanced diet, Avoid drugs and alcohol, Don't skip meals, and Limit caffeine. Avoid any foods that have been triggers. Furthermore, If you don't respond to other treatments and you have 4 or more migraine days a month, your doctor may suggest preventive medicines, including seizure medicines, blood pressure medicines (like beta blockers and calcium channel blockers), and some antidepressants. Also, CGRP inhibitors are a new class of preventive medicine.

**Revised Response:** To prevent migraine with brainstem aura, avoid common triggers by getting sufficient sleep, reducing stress, exercising regularly, eating a balanced diet, avoiding drugs and alcohol, and limiting caffeine. If experiencing four or more migraine days a month and unresponsive to other treatments, your doctor may recommend preventive medications.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What should I do if my child has a biting injury?

**Response:** The first thing to do for any biting injury is to wash the area with soap and water. Even little teeth can break the skin. If the bite is bleeding and the wound appears to be deep, call your child's doctor. The bite may need medical treatment, which could include antibiotics or a tetanus shot, or both.

**Revised Response:** For a biting injury, first wash the area with soap and water. If the bite is bleeding and deep, consult your child's doctor for possible medical treatments, including antibiotics and a tetanus shot.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** Can I give cough and cold medicines to children under 4?

**Response:** Talk to your pediatrician before giving OTC cold and cough medicines. These medicines should not be given to children under 4 years of age, according to the FDA and the drug makers.

**Revised Response:** The FDA and drug makers advise against giving cough and cold medicines to children under 4.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** How do I treat a blister?

**Response:** Most blisters caused by friction or minor burns do not require a doctor's care. New skin will form underneath the affected area and the fluid is simply absorbed. Do not puncture a blister unless it is large, painful, or likely to be further irritated. The fluid-filled blister keeps the underlying skin clean, which prevents infection and promotes healing. But if you need to pop a blister or it pops by itself: Use a sterilized needle (to sterilize it, put the point or edge in a flame until it is red hot, or rinse it in alcohol). Wash your hands and the area thoroughly, then make a small hole; the fluid will drain on its own. If the fluid is white or yellow, the blister may be infected and needs medical attention. Do not remove the skin over a broken blister. The new skin underneath needs this protective cover. Apply an antibiotic ointment or cream. Look for signs of infection to develop, including pus drainage, red or warm skin surrounding the blister, or red streaks leading away from the blister.

**Revised Response:** Most blisters from friction or minor burns can heal without medical intervention, as new skin forms underneath and the fluid is naturally absorbed. Avoid puncturing a blister unless it's painful or likely to get irritated. In this case, sterilize a needle with flame or alcohol, clean your hands and the blister area, and then gently puncture the blister to let the fluid drain. Keep the protective skin layer over the blister and apply an antibiotic ointment. Watch for signs of infection like pus, redness, or warmth around the blister.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Do not refer to the response in your revised response.

**Query:** What medications can I use to lessen my child's teething pain?

**Response:** Use baby acetaminophen (Tylenol) to dull pain. Do not use ibuprofen unless the baby is at least 6 months old.

**Revised Response:**

**Box 1.10:** Example of the prompt with few-shot examples used to generate the entailed output for MASH queries.

## 1.4 Prompts for the Abstractive Generation

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What's the life cycle of a frog?

**Response:** The stages of a frog's life cycle are egg, larva, and adult. In a frog egg, the yolk splits into many cells which are the beginnings of a tadpole, or a frog larva. In one to three weeks, a small tadpole hatches from the egg. During the larval stage, tadpoles, or frogs' larvae, are equipped with simple gills, a mouth, and a lengthy tail. As they develop, tadpoles consume plants and algae and then grow back legs, followed by front legs. Shortly afterward, their body begins to shift in shape and they gain the ability to consume insects. Then, the tails of the tadpoles grow smaller and skin develops over their gills while they grow eardrums and lungs.

**Revised Response:** A frog matures from egg, to tadpole, to adult in a process called metamorphosis. After hatching from an egg into a tadpole, it will grow back legs and then front legs, while storing nutrients in its long tail. As the tadpole loses its gills, it gains lungs. At this point, the tadpole is considered to be a froglet, until its tail shrinks away, at which point it is a frog.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What are the benefits of hyaluronic acid for skin care?

**Response:** Hyaluronic acid helps to retain moisture. It makes it easier for skin to be flexible and diminishes skin lines and wrinkles.

**Revised Response:** Hyaluronic acid helps keep skin moist and wrinkle-free. It can also reduce scarring, which may be especially beneficial for people who have had severe acne in the past.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What is a heirloom tomato?



**Response:** Unlike tomatoes that carry a genetic mutation that makes them look consistently red at the expense of their flavor, many heirloom tomatoes taste sweeter. Genuine heirloom tomatoes have to be old due to being a variety over the last 25 to 50 years.

**Revised Response:** Heirloom tomatoes are tomatoes that have a sweet flavor profile and are often other colors than red, including yellow, orange, and purple. A tomato variety is considered heirloom once it's been a variety for 25-50 years, although some insist that at least 100 years is necessary.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What's the flavor of juicy fruit gum?

**Response:** the mixture of fruit flavors in Juicy Fruit is comprised of predominately lemon, orange, pineapple, and banana notes.

**Revised Response:** Juicy Fruit flavor is a blend of mostly orange, lemon, banana, and pineapple flavors. Some say it tastes like coconut and jackfruit as well.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** Explain to a third-grader: who stole the mona lisa from the louvre in 1911

**Response:** The man who stole her, Vincenzo Peruggia, had once worked at the Louvre and had, ironically, helped build a protective case for the 16th century masterpiece.

**Revised Response:**

**Box 1.11:** Example of the prompt with few-shot examples used to generate the abstractive output for NQ and ETa3G queries.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** Are the director of film Move (1970 Film) and director of film Méditerranée (1963 Film) from the same country?

**Response:** Move (1970 Film) was directed by Stuart Rosenberg, who was born on August 11, 1927, and passing on March 15, 2007, and was renowned for his work as a director

in both American film and television. On the other hand, Méditerranée was directed by Jean-Daniel Pollet who lived from 1936 to 2004 and was celebrated as a French filmmaker and scriptwriter.

**Revised Response:** No; the director of 'Move' was born in New York and was American while the director of 'Méditerranée' was born in Nord and was French.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What nationality is the director of film Wedding Night In Paradise (1950 Film)?

**Response:** Wedding Night in Paradise is a 1950 West German musical comedy film directed by Géza von Bolváry. Géza von Bolváry (full name Géza Maria von Bolváry-Zahn; 26 December 1897 - 10 August 1961) was a Hungarian actor, screenwriter and film director.

**Revised Response:** The director of 'Wedding Night in Paradise' was Hungarian, but also worked in Germany and Austria.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** When did the performer of song A Pretty Girl Milking Her Cow die?

**Response:** Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer. A Pretty Girl Milking Her Cow enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly.

**Revised Response:** Judy Garland, the performer of 'A Pretty Girl Milking Her Cow' died on June 22, 1969 at age 47.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** Do both films The Falcon (Film) and Valentin The Good have the directors from the same country?

**Response:** Banović Strahinja( released internationally as The Falcon) is a 1981 Yugoslavian- German adventure film written and directed by Vatroslav Mimica. Vatroslav Mimica( born 25 June 1923) is a Croatian film director and screenwriter.

Valentin the Good is a 1942 Czech comedy film directed by Martin Frič and Martin Frič( 29 March 1902 - 26 August 1968) was a Czech film director, screenwriter and actor.

**Revised Response:** No; the director of 'The Falcon' is Vatroslav Mimica, who is from Croatia, while 'Valentin the Good' was directed by Martin Frič, from the Czech Republic. However, during Frič's life, the Czech Republic did not exist; modern-day Czech Republic was first part of the Austro-Hungarian Empire and then, after World War I, was part of Czechoslovakia.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What is the date of birth of Mina Gerhardsen's father?

**Response:** Mina Gerhardsen (born 14 September 1975) is a Norwegian politician for the Labour Party. She is the daughter of Rune Gerhardsen and Tove Strand. Rune Gerhardsen (born 13 June 1946) is a Norwegian politician.

**Revised Response:** Mina Gerhardsen's father, Rune Gerhardsen, was born on June 13, 1946.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** When is the composer of film Sruthilayalu 's birthday?

**Response:** Sruthilayalu is a 1987 Indian Telugu-language musical drama film, written and directed by K. Viswanath. The film stars Rajasekhar and Sumalata with soundtrack composed by K. V. Mahadevan. Krishnankoil Venkadachalam Mahadevan (14 March 1918 - 21 June 2001) was an Indian composer, singer-songwriter, music producer, and musician known for his works in Tamil cinema, Telugu cinema, Kannada cinema, and Malayalam cinema.

**Revised Response:** The composer of 'Sruthilayalu', Krishnankoil Venkadachalam Mahadevan, was born on March 14, 1918.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** When did Fatima Bint Mubarak Al Ketbi's husband die?

**Response:** Fatima bint Mubarak Al Ketbi is the third wife of Sheikh Zayed bin Sultan Al Nahyan. Sheikh Zayed bin Sultan Al Nahyan ; 6 May 1918 - 2 November 2004) was the ruler of Abu Dhabi for more than 30 years (6 August 1966 - 2 November 2004).

**Revised Response:** Fatima bint Mubarak Al Ketbi's husband was Sheikh Zayed bin Sultan Al Nahyan, who passed away when he was 86, on November 2, 2004.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** Who is the mother-in-law of Andrew Murray (Scottish Soldier)?

**Response:** Sir Andrew Murray married Christina Bruce, a sister of King Robert I of Scotland. Christina Bruce (c. 1278 - 1356/1357), also known as Christina de Brus, was a daughter of Marjorie, Countess of Carrick, and her husband, Robert de Brus, 'jure uxoris' Earl of Carrick, as well as a sister of Robert the Bruce, King of Scots.

**Revised Response:** Sir Andrew Murray's married Christina Bruce, making her mother, Marjorie, Countess of Carrick, his mother-in-law. Marjorie is notable for her son, Robert the Bruce, King of Scots, who led the first War of Scottish Independence against England.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** When did the performer of song A Pretty Girl Milking Her Cow die?

**Response:** Judy Garland (born Frances Ethel Gumm; June 10, 1922 - June 22, 1969) was an American actress, singer and dancer. A Pretty Girl Milking Her Cow enjoyed a revival when an updated swing version sung by Irish-American singer/actress Judy Garland was featured in the 1940 film Little Nellie Kelly.

**Revised Response:** While the song 'A Pretty Girl Milking Her Cow' has been sung by many people, it became especially popular from its rendition by Judy Garland, who passed away on June 22, 1969.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What is the date of birth of the director of film Runway (2010 Film)?

**Response:** Runway is a 2010 Bangladeshi drama film directed by Tareque Masud. Tareque Masud( 6 December 1956 - 13 August 2011) was a Bangladeshi independent film director, film producer, screenwriter and lyricist.

**Revised Response:**

**Box 1.12:** Example of the prompt with few-shot examples used to generate the abstractive output for 2WikiMH queries.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What can you do to prevent migraine with brainstem aura?

**Response:** To prevent migraine with brainstem aura, it helps to avoid the things that usually cause one. This includes being sure to Get enough sleep, Limit your stress, and Exercise daily. Additionally, Eat a balanced diet, Avoid drugs and alcohol, Don't skip meals, and Limit caffeine. Avoid any foods that have been triggers.

**Revised Response:** Preventing migraine with brainstem aura involves lifestyle adjustments and possibly medication for those with frequent episodes. Key strategies include maintaining regular sleep patterns, managing stress, exercising regularly, eating a balanced diet, avoiding known food triggers, limiting caffeine and alcohol intake, and not skipping meals. Furthermore, If you don't respond to other treatments and you have 4 or more migraine days a month, your doctor may suggest preventive medicines, including seizure medicines, blood pressure medicines (like beta blockers and calcium channel blockers), and some antidepressants. Also, CGRP inhibitors are a new class of preventive medicine. There is anecdotal evidence that triptans can worsen migraine symptoms, even though it is often prescribed by medical professionals.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What should I do if my child has a biting injury?

**Response:** The first thing to do for any biting injury is to wash the area with soap and water. Even little teeth can break the skin. If the bite is bleeding and the wound appears to be deep, call your child's doctor. The bite may need medical treatment, which could include antibiotics or a tetanus shot, or both.

**Revised Response:** For a biting injury, immediately clean the wound with soap and water. If it's bleeding or deep, contact your child's doctor for potential treatment, which may involve antibiotics or a tetanus shot. If the child was bitten by an animal, it can be life-saving to seek medical treatment for a rabies vaccine within 24 hours, or at least within 72 hours. Even if more than 72 hours have elapsed since the bite, it is still not too late to get the shot. If left untreated, rabies can be fatal.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** Can I give cough and cold medicines to children under 4?

**Response:** Talk to your pediatrician before giving OTC cold and cough medicines. These medicines should not be given to children under 4 years of age, according to the FDA and the drug makers.

**Revised Response:** The FDA and drug makers advise against giving cough and cold medicines to children under 4. Also, never give adult medicines to children; only use medicines designed for children. Lastly, do not give aspirin to a child due to the risk of Reye's syndrome, which is a rare but serious condition.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** How do I treat a blister?

**Response:** Most blisters caused by friction or minor burns do not require a doctor's care. New skin will form underneath the affected area and the fluid is simply absorbed. Do not puncture a blister unless it is large, painful, or likely to be further irritated. The fluid-filled blister keeps the underlying skin clean, which prevents infection and promotes healing. But if you need to pop a blister or it pops by itself: Use a sterilized needle (to sterilize it, put the point or edge in a flame until it is red hot, or rinse it in alcohol). Wash your hands and the area thoroughly, then make a small hole; the fluid will drain on its own. If the fluid is white or yellow, the blister may be infected and needs medical attention. Do not remove the skin over a broken blister. The new skin underneath needs this protective cover. Apply an antibiotic ointment or cream. Look for signs of infection to develop, including pus drainage, red or warm skin surrounding the blister, or red streaks leading away from the blister.

**Revised Response:** For most blisters, medical care isn't necessary. Allow new skin to form beneath the blister and the fluid to absorb. To protect the blister from further irritation, it is advisable to cover it with moleskin, a durable cotton fabric with an adhesive backing available at most drug stores. If a blister is large, painful, or might be further irritated, and needs to be popped, sterilize a needle with heat or alcohol, clean your hands and the blister area, then gently puncture it to let the fluid drain, but don't remove the overlying skin as it protects the new skin. If the blister's fluid isn't clear (indicating possible infection), seek medical attention. Apply an antibiotic ointment, cover it with a bandage and monitor for signs of infection like pus, redness, or warmth.

**Instruction:** Respond to the following query by building off of the response below. Specifically, rephrase and combine the sentences in the response by paraphrasing them, cutting out extraneous or redundant information, and simplifying details that are too fine-grained with respect to the question. Also, simplify premises to their



logical conclusions to more directly answer the query. Most importantly, use accurate outside information to make the revised response a more useful answer to the query. If the provided response is not an accurate or useful answer to the query, then extensively revise it with accurate outside information. Respond in no more than about 100 words. Do not refer to the response in your revised response.

**Query:** What medications can I use to lessen my child's teething pain?

**Response:** Use baby acetaminophen (Tylenol) to dull pain. Do not use ibuprofen unless the baby is at least 6 months old.

**Revised Response:**

**Box 1.13:** Example of the prompt with few-shot examples used to generate the abstractive output for MASH queries.

## 1.5 Prompts for Citation Identification

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** As they develop, tadpoles consume plants and algae and then grow back legs, followed by front legs

**Quotes:**

[1] "The life cycle of a frog consists of three stages: egg, larva, and adult"

[2] "As the frog grows, it moves through these stages in a process known as metamorphosis"

[3] "the yolk in each egg splits into more and more cells and begins to take the form of a tadpole, the larva of a frog"

[4] "Within one to three weeks, the egg is ready to hatch, and a tiny tadpole breaks free"

[5] "[t]adpoles, frogs' larvae, have rudimentary gills, a mouth, and a long tail"

[6] "tadpoles feed on algae and other vegetation"

[7] "they grow back legs, then front legs too"

[8] "Soon after, their body starts to change shape, and they're able to start eating insects"

[9] "Next, the tadpoles' tails shrink away, and skin grows over their gills, as they develop lungs and eardrums"

**Answer:** [6] [7]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** Hyaluronic acid has been shown to decrease the recovery time of wounds and can lessen scarring

**Quotes:**

[1] "helps keep things hydrated"

[2] "helps skin stretch and flex and reduces skin wrinkles and lines"

[3] "Hyaluronic acid is also proven to help wounds heal faster and can reduce scarring"

Answer: [3]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** Unlike tomatoes that carry a genetic mutation that makes them look consistently red at the expense of their flavor, many heirloom tomatoes taste sweeter

**Quotes:**

[1] "Many heirloom tomatoes are sweeter and lack a genetic mutation that gives tomatoes a uniform red color at the cost of the fruit's taste"

[2] "True heirlooms must be 'old' because they have been a variety for anywhere between 25 and 50 years"

Answer: [1]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** The person who took the Mona Lisa, Vincenzo Peruggia, used to work at the Louvre museum and even helped make a special glass case to keep this famous painting safe before he stole it.

**Quotes:**

[1] "The man who stole her, Vincenzo Peruggia, had once worked at the Louvre and had, ironically, helped build a protective case for the 16th century masterpiece"

Answer:

**Box 1.14:** Example of the prompt with few-shot examples used to identify the citations for the paraphrased, entailed, and abstractive responses to NQ and Eta3G queries.

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** Theodosius II, an Eastern Roman (Byzantine) emperor, founded the Imperial University of Constantinople, also known as the University of the Palace Hall of Magnaura, in 425 AD when he founded the Pandidakterion.

**Quotes:**

[1] "The Imperial University of Constantinople, sometimes known as the University of the Palace Hall of Magnaura, can trace its corporate origins to 425 AD, when the Eastern Roman (Byzantine) emperor Theodosius II founded the Pandidakterion"

[2] "Theodosius II (10 April 401 - 28 July 450), commonly surnamed Theodosius the Younger, or Theodosius the Calligrapher, was the Eastern Roman Emperor for most of his life, taking the throne as an infant in 402 and ruling as the Eastern Empire's sole emperor after the death of his father Arcadius in 408"

Answer: [1][2]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** Born on August 11, 1927, Stuart Rosenberg was an American director of television and film and passed away on March 15, 2007.

**Quotes:**

[1] "Move is a 1970 American comedy film starring Elliott Gould, Paula Prentiss and Geneviève Waïte, and directed by Stuart Rosenberg."

[2] "Stuart Rosenberg (August 11, 1927 - March 15, 2007) was an American film and television director."

[3] "Méditerranée is a 1963 French experimental film directed by Jean-Daniel Pollet"

[4] "Jean-Daniel Pollet (1936-2004) was a French film director and screenwriter."

**Answer:** [1][2][3][4]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** The third wife of Sheikh Zayed bin Sultan Al Nahyan is Fatima bint Mubarak Al Ketbi.

**Quotes:**

[1] "Fatima bint Mubarak Al Ketbi is the third wife of Sheikh Zayed bin Sultan Al Nahyan."

[2] "Sheikh Zayed bin Sultan Al Nahyan 6 May 1918 - 2 November 2004) was the ruler of Abu Dhabi for more than 30 years (6 August 1966 - 2 November 2004)."

**Answer:** [1][2]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** Martin Frič directed the Czech comedy film, 'Valentine the Good', which came out in 1942.

**Quotes:**

[1] "Banović Strahinja(released internationally as The Falcon) is a 1981 Yugoslavian-German adventure film written and directed by Vatroslav Mimica."

[2] "Vatroslav Mimica( born 25 June 1923) is a Croatian film director and screenwriter."

[3] "Valentin the Good is a 1942 Czech comedy film directed by Martin Frič."

[4] "Martin Frič( 29 March 1902 - 26 August 1968) was a Czech film director, screenwriter and actor."

**Answer:** [1][2][3][4]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of

the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** The 2010 Bangladeshi drama 'Runway' was helmed by Tareque Masud, who was born on December 6, 1956.

**Quotes:**

[1] "Runway is a 2010 Bangladeshi drama film directed by Tareque Masud"

[2] "Tareque Masud( 6 December 1956 - 13 August 2011) was a Bangladeshi independent film director, film producer, screenwriter and lyricist"

**Answer:**

**Box 1.15:** Example of the prompt with few-shot examples used to identify the citations for the paraphrased, entailed, and abstractive responses to 2WikiMH queries.

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** Moreover, maintaining a nutritious diet, abstaining from drugs and alcohol, not missing meals, reducing caffeine intake, and steering clear of any known food triggers are good precautions.

**Quotes:**

[1] "it helps to avoid the things that usually cause one"

[2] "Get enough sleep"

[3] "Limit your stress"

[4] "Eat a balanced diet"

[5] "Avoid drugs and alcohol"

[6] "Don't skip meals"

[7] "Limit caffeine"

[8] "Avoid any foods that have been triggers."

**Answer:** [4] [5] [6] [7] [8]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** According to both the FDA and drug makers, children under 4 years of age should not take OTC cold and cough medicines.

**Quotes:**

[1] "Talk to your pediatrician before giving OTC cold and cough medicines"

[2] "These medicines should not be given to children under 4 years of age, according to the FDA and the drug makers"

**Answer:** [2]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of

the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** However, if there's a need to drain a blister, or if it bursts on its own, ensure to use a needle that has been sterilized either by heating it until it glows red or by cleansing it with alcohol.

**Quotes:**

[1] "The fluid-filled blister keeps the underlying skin clean, which prevents infection and promotes healing"

[2] "But if you need to pop a blister or it pops by itself: Use a sterilized needle (to sterilize it, put the point or edge in a flame until it is red hot, or rinse it in alcohol)"

[3] "Wash your hands and the area thoroughly, then make a small hole; the fluid will drain on its own"

**Answer:** [2]

**Instruction:** Examine the text and numbered quotes below. The text was likely written from one or a few of the quotes. Which of these quotes, if any, could have been used to write the text? It may be none of the quotes, one quote, or several of the quotes. Do not provide redundant quotes. Respond with the number of the quote(s) in brackets.

**Text:** Administer acetaminophen formulated for infants (such as Tylenol) to alleviate discomfort.

**Quotes:**

[1] "Use baby acetaminophen (Tylenol) to dull pain"

[2] "Do not use ibuprofen unless the baby is at least 6 months old"

**Answer:**

**Box 1.16:** Example of the prompt with few-shot examples used to identify the citations for the paraphrased, entailed, and abstractive responses to MASH queries.