

Group 33, Project 1 Transcripts

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Content

- Input and output of `dechi.py` — group33's implementation of project 1 — on three query strings: **per se**, **brin**, and **jaguar**.
- All results shown are from executions on a Google Compute Engine VM, named `gcvvm-1`
- All three runs reached **precision@10** of **1.0** after the first query expansion. The format of the output mimics that of the reference implementation

Query 1: `'per se'`

Command

```
rasbar@gcvvm-1:~/cs6111/project-1
$ dechi.py @keys 0.9 'per se'      # keys file submitted with code in *tar.gz
```

Initial search output

```
Parameters:
Client key =  AIzaSyAlKLHeleAmug6XeTlQ1DxzOsPI4zax7Ms
Engine key =  006096712590953604068:qoxtr78cjow
Query        =  per se
Precision    =  0.9

Google Search Results:
=====
Result 1
[
  URL: https://www.thomaskeller.com/perseny
  Title: Per Se | Thomas Keller Restaurant Group
  Summary: Per Se entrance. center. Macadamia nut dipped in chocolate. left. Mini meat filled
pastries. right. Per Se Salon. center. Fish and vegetables. right. Oysters and ...
]
Relevant (Y/N)? y
Result 2
[
  URL: www.dictionary.com/browse/per-se
  Title: Per se | Define Per se at Dictionary.com
  Summary: Per se definition, by, of, for, or in itself; intrinsically: This candidate is not a pacifist
per se, but he is in favor of peaceful solutions when practicable. See more.
]
Relevant (Y/N)? n
Result 3
[
  URL: https://www.merriam-webster.com/dictionary/perse
  Title: Perse | Definition of Perse by Merriam-Webster
  Summary: Define perse: of a dark grayish blue resembling indigo — perse in a sentence.
]
Relevant (Y/N)? n
Result 4
[
```

```

URL: https://en.wiktionary.org/wiki/per_se
Title: per se - Wiktionary
Summary: Borrowed from Latin per se ("by itself"), from per ("by, through") and se ("itself, himself, ... Well, that's not correct per se, but the situation is something like that.
]
Relevant (Y/N)? n
Result 5
[
URL: https://en.wikipedia.org/wiki/Per_se
Title: Per se - Wikipedia
Summary: Per se may refer to: per se (Latin), a Latin phrase meaning "by itself" or "in itself". Illegal per se, the legal usage in criminal and anti-trust law; Negligence per se, ...
]
Relevant (Y/N)? n
Result 6
[
URL: https://www.yelp.com/biz/per-se-new-york
Title: Per Se - 3882 Photos & 1286 Reviews - French - 10 Columbus Cir ...
Summary: 1286 reviews of Per Se "Per Se is the best of the best. I've had the pleasure of dining at many of the worlds "Best Restaurants" and Per Se is obvious why they're ...
]
Relevant (Y/N)? y
Result 7
[
URL: https://www.nytimes.com/2016/01/13/dining/pete-wells-per-se-review.html
Title: At Thomas Keller's Per Se, Slips and Stumbles - The New York Times
Summary: Jan 12, 2016 ... Such is Per Se's mystique that I briefly wondered if the failure to bring a napkin could have been intentional. The restaurant's identity, to ...
]
Relevant (Y/N)? y
Result 8
[
URL: https://www.vocabulary.com/dictionary/per%20se
Title: per se - Dictionary Definition : Vocabulary.com
Summary: Per se is the phrase to use when you want to refer to a particular thing on its own. It is not this Latin phrase, per se, that is important, but rather the concept it ...
]
Relevant (Y/N)? n
Result 9
[
URL: https://en.wikipedia.org/wiki/Per_Se_(restaurant)
Title: Per Se (restaurant) - Wikipedia
Summary: Per Se is a New American and French restaurant located on the fourth floor of the Time Warner Center at 10 Columbus Circle in Manhattan in New York City, ...
]
Relevant (Y/N)? y
Result 10
[
URL: https://www.opentable.com/per-se-reservations-new-york
Title: Per Se reservations in New York, NY | OpenTable
Summary: Make a restaurant reservation at Per Se in New York, NY. Select date, time, and party size to find a table.
]
Relevant (Y/N)? y

```

Augmented query output

```

=====
FEEDBACK SUMMARY
Query: per se

```

Precision: 0.5
Still below the desired precision of 0.9
Indexing results
Augmenting by: restaurant york
Expanded query: per se restaurant york

Parameters:

Client key = AIzaSyAlKLHeleAmug6XeTlQlDxzOsPI4zax7Ms
Engine key = 006096712590953604068:qoxtr78cjow
Query = per se restaurant york
Precision = 0.9

Google Search Results:

=====

Result 1

[
URL: <https://www.thomaskeller.com/perseny>
Title: Per Se | Thomas Keller Restaurant Group
Summary: Macadamia nut dipped in chocolate. left. Mini meat filled pastries. right. Per Se Salon. center. Fish and vegetables. right. Oysters and Caviar; resting on tapioca ...
]

Relevant (Y/N)? y

Result 2

[
URL: <https://www.nytimes.com/2016/01/13/dining/pete-wells-per-se-review.html>
Title: At Thomas Keller's Per Se, Slips and Stumbles - The New York Times
Summary: Jan 12, 2016 ... The name Per Se, after all, was chosen to suggest that New York would not simply reflect California's glory; this would be a landmark restaurant ...
]

Relevant (Y/N)? y

Result 3

[
URL: <https://www.thomaskeller.com/new-york-new-york/per-se/restaurant>
Title: Per Se
Summary: Restaurant. Opened in 2004, Per Se is Thomas Keller's acclaimed New York interpretation of The French Laundry in the Time Warner Center at Columbus Circle ...
]

Relevant (Y/N)? y

Result 4

[
URL: <https://www.opentable.com/per-se>
Title: Per Se Restaurant - New York, NY | OpenTable
Summary: Book now at Per Se in New York, explore menu, see photos and read 1964 reviews: "Fantastische avond, prachtig gegeten en voortreffelijkebedieni g"
]

Relevant (Y/N)? y

Result 5

[
URL: <https://www.thomaskeller.com/new-york...york/per-se/todays-menus>
Title: Per Se
Summary: Daily Menus Two tasting menus are offered daily: a nine-course chef's tasting menu as well as a nine-course vegetable tasting menu. No single ingredient is ...
]

Relevant (Y/N)? y

Result 6

[
URL: [https://en.wikipedia.org/wiki/Per_Se_\(restaurant\)](https://en.wikipedia.org/wiki/Per_Se_(restaurant))
Title: Per Se (restaurant) - Wikipedia
Summary: Per Se is a New American and French restaurant located on the fourth floor of the Time Warner Center at 10 Columbus Circle in Manhattan in New York City, ...
]

Relevant (Y/N)? y

```

Result 7
[
  URL: www.esquire.com/food.../restaurants/.../per-se-new-york-times-chef-reactions /
  Title: Why That Per Se Review May Change Fine Dining Forever
  Summary: Feb 10, 2016 ... Even when it opened in 2004, Per Se recalled an older school of luxury. New
  York restaurants have been skewing casual since the early 2000s ...
]
Relevant (Y/N)? y
Result 8
[
  URL: www.townandcountrymag.com/.../thomas-keller-per-se-new-york-times- review/
  Title: Thomas Keller Responds to New York Times Review of Per Se ...
  Summary: Sep 8, 2016 ... But on January 12 the New York Times had knocked Per Se, his seemingly
  untouchable restaurant on Columbus Circle in Manhattan, down ...
]
Relevant (Y/N)? y
Result 9
[
  URL: https://ny.eater.com/2016/1/28/.../thomas-keller-per-se-response
  Title: Keller Responds to Per Se Review: 'We Are Sorry We Let You Down ...
  Summary: Jan 28, 2016 ... The fact that The New York Times restaurant critic Pete Wells' dining experi
  at Per Se did not live up to his expectations and to ours is ...
]
Relevant (Y/N)? y
Result 10
[
  URL: https://www.viamichelin.com/.../Restaurant/New_York-10019-Per_Se-69452- 41102
  Title: Per Se - Manhattan : a Michelin Guide restaurant
  Summary: Per Se: Michelin Guide review, users review, type of cuisine, opening times, meal
  ... Per Se. MICHELIN Guide 2017. 10 Columbus Circle, New York 10019.
]
Relevant (Y/N)? y

=====
FEEDBACK SUMMARY
Precision: 1.0
Desired precision reached. Done!

```

Query 2: **brin**

Command

```

rasbar@gcvm-1:~/cs6111/project-1
$ dechi.py @keys 0.9 brin          # keys file submitted with code in *tar.gz

```

Initial search output

```

Parameters:
Client key = AIzaSyAlKLHeleAmug6XeTlQ1DxzOsPI4zax7Ms
Engine key = 006096712590953604068:qoxtr78cjow
Query      = brin
Precision  = 0.9

Google Search Results:
=====
Result 1
[
  URL: https://en.wikipedia.org/wiki/Sergey_Brin
  Title: Sergey Brin - Wikipedia
  Summary: Sergey Mikhailovich Brin is a Russian-born American computer scientist and

```

internet entrepreneur. Together with Larry Page, he co-founded Google. Brin is the ...

]

Relevant (Y/N)? y

Result 2

[

URL: www.thefreedictionary.com/brin

Title: Brin - definition of brin by The Free Dictionary

Summary: Define brin. brin synonyms, brin pronunciation, brin translation, English dictionary definition of brin. n 1. one of two filaments of silk combined by the silkworm to ...

]

Relevant (Y/N)? n

Result 3

[

URL: <https://play.google.com/store/apps/details?id=io.brin.brin&hl=en>

Title: BRiN® - Growing Your Business™ - Android Apps on Google Play

Summary: Want help to grow your business? Then it's time to download the world's #1 App for business owners, entrepreneurs, senior leaders, executives and start-ups!

]

Relevant (Y/N)? n

Result 4

[

URL: www.davidbrin.com/

Title: worlds of David Brin

Summary: The official website of best-selling science fiction writer and futurist DAVID BRIN.

]

Relevant (Y/N)? n

Result 5

[

URL: <https://en.wiktionary.org/wiki/brin>

Title: brin - Wiktionary

Summary: The imported definitions may be significantly out of date, and any more recent senses may be completely missing. (See the entry for brin in Webster's Revised ...

]

Relevant (Y/N)? n

Result 6

[

URL: <https://brin.ai/>

Title: BRiN - The World's First 24/7 Business Advisor, Entrepreneur Coach ...

Summary: Introducing BRiN - Your Personal Business Advisor. Download BRiN today & get instant access to real-time support and hundreds of business education videos.

]

Relevant (Y/N)? n

Result 7

[

URL: <https://www.bloomberg.com/billionaires/profiles/sergey-brin/>

Title: Bloomberg Billionaires Index - Sergey Brin

Summary: Overview. Brin is president of Alphabet, the holding company that owns Google, the world's largest search-engine operator. He co-founded the Mountain View, ...

]

Relevant (Y/N)? y

Result 8

[

URL: sites.usd.edu/brin/

Title: brin

Summary: BRIN Project Description: SD BRIN has been funded by the National Center for Research Resources (NIH) since 2001. We have several Cores (proteomics, ...

]

Relevant (Y/N)? n

Result 9

[

URL: www.businessinsider.com/sergey-brin-resume-stanford-1996-google-2017-9

Title: Sergey Brin's resume from 1996, 2 years before he cofounded ...

```

Summary: Sep 27, 2017 ... Google cofounder Sergey Brin was pursuing a Ph.D. in computer science at
Stanford two years before Google was born.
]
Relevant (Y/N)? y
Result 10
[
URL: https://www.collinsdictionary.com/dictionary/english/brin
Title: Brin definition and meaning | Collins English Dictionary
Summary: Brin definition: one of two filaments of silk combined by the silkworm to form a
strand of silk | Meaning, pronunciation, translations and examples.
]
Relevant (Y/N)? n

```

Query augmentation output

```

=====
FEEDBACK SUMMARY
Query: brin
Precision: 0.3
Still below the desired precision of 0.9
Indexing results ....
Augmenting by: sergey google
Expanded query: brin sergey google

Parameters:
Client key = AIzaSyAlKLHeleAmug6XeTlQ1DxzOsPI4zax7Ms
Engine key = 006096712590953604068:qoxtr78cjow
Query      = brin sergey google
Precision  = 0.9

Google Search Results:
=====
Result 1
[
URL: https://en.wikipedia.org/wiki/Sergey_Brin
Title: Sergey Brin - Wikipedia
Summary: Sergey Mikhaylovich Brin is a Russian-born American computer scientist and
internet entrepreneur. Together ...
]
Relevant (Y/N)? y
Result 2
[
URL: www.businessinsider.com/sergey-brin-google-alphabet-life-photos-2016-12
Title: Sergey Brin: The life of Google's cofounder, Alphabet's president ...
Summary: Dec 24, 2016 ... Sergey Brin cofounded Google with Larry Page and now serves as the president
of Alphabet. Here's a look at how he got to where he is today.
]
Relevant (Y/N)? y
Result 3
[
URL: https://www.cnn.com/.../google-larry-page-and-sergey-brin-ask-an-unusual-interview-question.ht
Title: Google's Larry Page and Sergey Brin ask an unusual interview ...
Summary: May 31, 2017 ... If you ever landed a job interview at Google with co-founders Larry Page and
Sergey Brin, you'd expect the questions to be difficult.
]
Relevant (Y/N)? y
Result 4
[
URL: https://www.vanityfair.com/.../sergey-brin-amanda-rosenberg-affair
Title: Sergey Brin and Amanda Rosenberg: Inside the Google Co ...
Summary: The story behind Google co-founder Sergey Brin's liaison with Google Glass
marketing manager Amanda Rosenberg—and his split from his wife, genetic-

```

```

testing ...
]
Relevant (Y/N)? y
Result 5
[
  URL: https://www.theverge.com/2017/1/28/.../google-sergey-brin
  Title: Google co-founder Sergey Brin joins protest against immigration ...
  Summary: Jan 28, 2017 ... Sergey Brin, Google co-founder and president of Alphabet, joined protesters
  San Francisco International Airport tonight as demonstrators ...
]
Relevant (Y/N)? y
Result 6
[
  URL: https://www.ted.com/talks/sergey_brin_why_google_glass
  Title: Sergey Brin: Why Google Glass? | TED Talk | TED.com
  Summary: It's not a demo, more of a philosophical argument: Why did Sergey Brin and his
  team at Google want to build an eye-mounted camera/computer, codenamed ...
]
Relevant (Y/N)? y
Result 7
[
  URL: https://www.forbes.com/profile/sergey-brin/
  Title: Sergey Brin
  Summary: Brin works as president of tech giant Alphabet, the parent firm of Google. He
  previously ran the secretive Google X division, which made the ill-fated Google ...
]
Relevant (Y/N)? y
Result 8
[
  URL: https://www.ted.com/talks/sergey_brin_and_larry_page_on_google
  Title: Sergey Brin + Larry Page: The genesis of Google | TED Talk | TED ...
  Summary: Google co-founders Larry Page and Sergey Brin offer a peek inside the Google
  machine, sharing tidbits about international search patterns, the philanthropic ...
]
Relevant (Y/N)? y
Result 9
[
  URL: https://www.biography.com/people/sergey-brin-12103333
  Title: Sergey Brin - Inventor, Computer Programmer, Engineer - Biography ...
  Summary: Nov 2, 2016 ... Sergey Brin is the man who created the world's most popular search engine,
  Google, with Larry Page in 1998. Learn more about his life and ...
]
Relevant (Y/N)? y
Result 10
[
  URL: https://www.weforum.org/.../google-sergey-brin-i-didn-t-see-ai-coming/
  Title: Sergey Brin: I didn't see AI coming | World Economic Forum
  Summary: Jan 19, 2017 ... Sergey Brin tells Davos participants that he did not foresee the rise of ma
  learning, ... Sergey Brin, co-founder of Google, at Davos 2017.
]
Relevant (Y/N)? y

=====
FEEDBACK SUMMARY
Precision: 1.0
Desired precision reached. Done!

```

Query 3: jaguar

Command

```
rasbar@gcvm-1:~/cs6111/project-1
$ dechi.py @keys 0.9 jaguar      # keys file submitted with code in *tar.gz
```

Initial query output

```
Parameters:
Client key = AIzaSyAlKLHeleAmug6XeTlQ1DxzOsPI4zax7Ms
Engine key = 006096712590953604068:qoxtr78cjow
Query      = jaguar
Precision  = 0.9

Google Search Results:
=====
Result 1
[
  URL: https://www.jaguarusa.com/index.html
  Title: Jaguar USA: Jaguar Sedans, SUVs & Sports Cars - Official Site
  Summary: The official home of Jaguar USA. Explore our luxury sedans, SUVs and sports cars. Build Yours, Schedule a Test Drive or Find a Dealer Near You.
]
Relevant (Y/N)? n
Result 2
[
  URL: https://en.wikipedia.org/wiki/Jaguar
  Title: Jaguar - Wikipedia
  Summary: The jaguar (Panthera onca) is a big cat, a feline in the Panthera genus, and is the only extant Panthera species native to the Americas. The jaguar is the ...
]
Relevant (Y/N)? y
Result 3
[
  URL: https://www.jaguarusa.com/build-yours/index.html
  Title: Build Yours | Jaguar USA
  Summary: Build your Jaguar sport luxury vehicle today. Choose from XE, XF, F-PACE or other models designed to fit your lifestyle and personal taste.
]
Relevant (Y/N)? n
Result 4
[
  URL: https://en.wikipedia.org/wiki/Jaguar_Cars
  Title: Jaguar Cars - Wikipedia
  Summary: Jaguar is the luxury vehicle brand of Jaguar Land Rover, a British multinational car manufacturer with its headquarters in Whitley, Coventry, England, owned by ...
]
Relevant (Y/N)? n
Result 5
[
  URL: https://www.jaguarusa.com/all-models/all-models/index.html
  Title: All Models - Luxury Sedans, Sports Cars & SUVs | Jaguar USA
  Summary: Explore the latest and newest generation cars by Jaguar. From performance crossover SUVs, luxury sport sedans, coupe and convertibles to future concept cars.
]
Relevant (Y/N)? n
Result 6
[
  URL: www.jaguars.com/
  Title: Jacksonville Jaguars, Official Site of the Jacksonville Jaguars
  Summary: Jaguars WRs Marqise Lee, Jaelen Strong listed as questionable for Sunday's game against the Steelers at Heinz Field in Pittsburgh, Pennsylvania ...
]
Relevant (Y/N)? n
```



```

Result 7
[
  URL: www.defenders.org/jaguar/basic-facts
  Title: Jaguar | Basic Facts About Jaguars | Defenders of Wildlife
  Summary: The jaguar is the largest cat in the Americas. The jaguar has a compact body, a
  broad head and powerful jaws. Its coat is normally yellow and tan, but the color ...
]
Relevant (Y/N)? y
Result 8
[
  URL: www.nfl.com/teams/jacksonvillejaguars/profile?team=JAX
  Title: Jacksonville Jaguars Team Page at NFL.com
  Summary: Visit the Jaguars' official website for your daily fix of team information. ...
  Jacksonville Jaguars rookie running back Leonard Fournette is already drawing
  high ...
]
Relevant (Y/N)? n
Result 9
[
  URL: https://www.youtube.com/user/JaguarCarsLimited
  Title: Jaguar - YouTube
  Summary: Since the first Jaguar car was produced in 1935 we have pushed the boundaries
  of what is possible. We've always believed that a car is the closest thing you ...
]
Relevant (Y/N)? n
Result 10
[
  URL: www.jaguarusa.com/certified-preowned/index.html
  Title: Certified Pre-Owned Program Benefits | Jaguar USA
  Summary: Learn about the benefits of the Jaguar Certified Pre-Owned Vehicle Program,
  including a rigorous inspection and warranty information.
]
Relevant (Y/N)? n

```

Query augmentation output

```

=====
FEEDBACK SUMMARY
Query: jaguar
Precision: 0.2
Still below the desired precision of 0.9
Indexing results ....
Augmenting by: panthera americas
Expanded query: jaguar panthera americas

Parameters:
Client key = AIzaSyAlKLHeleAmug6XeTlQlDxxOsPI4zax7Ms
Engine key = 006096712590953604068:qoxtr78cjow
Query      = jaguar panthera americas
Precision  = 0.9

Google Search Results:
=====
Result 1
[
  URL: https://en.wikipedia.org/wiki/Jaguar
  Title: Jaguar - Wikipedia
  Summary: The jaguar (Panthera onca) is a big cat, a feline in the Panthera genus, and is the
  only extant Panthera species native to the Americas. The jaguar is the ...
]
Relevant (Y/N)? y
Result 2

```

```
[
  URL: https://www.panthera.org/cat/jaguar
  Title: Jaguar
  Summary: The jaguar is the largest wild cat in the Western Hemisphere. Although jaguar
populations are abundant in some areas, many are threatened by illegal hunting,
  ...
]
Relevant (Y/N)? y
Result 3
[
  URL: www.defenders.org/jaguar/basic-facts
  Title: Jaguar | Basic Facts About Jaguars | Defenders of Wildlife
  Summary: The jaguar is the largest cat in the Americas. The jaguar has a compact body, a
broad head and powerful jaws. Its coat is normally yellow and tan, but the color ...
]
Relevant (Y/N)? y
Result 4
[
  URL: https://en.wikipedia.org/wiki/Black_panther
  Title: Black panther - Wikipedia
  Summary: A black panther is the melanistic color variant of any big cat species. Black
panthers in Asia and Africa are leopards (Panthera pardus), and those in the
Americas are black jaguars (Panthera onca) or cougars (Puma concolor).
]
Relevant (Y/N)? y
Result 5
[
  URL: https://www.livescience.com/27301-jaguars.html
  Title: Fun Facts About Jaguars
  Summary: Sep 21, 2017 ... Jaguar Facts: Biggest Cat in Americas. A jaguar cub inspects a camera trap,
up by the cat conservation group Panthera, in a Colombian oil ...
]
Relevant (Y/N)? y
Result 6
[
  URL: www.arkive.org/jaguar/panthera-onca/
  Title: Jaguar videos, photos and facts - Panthera onca | Arkive
  Summary: The jaguar (Panthera onca) is the largest cat of the Americas and a formidable
predator. Its common name comes from the native Indian name 'yaguara', ...
]
Relevant (Y/N)? y
Result 7
[
  URL: wwf.panda.org/about_our_earth/teacher.../best.../jaguar.cfm
  Title: Jaguar | WWF
  Summary: What The Jaguar (Panthera onca) is the only member of the panthera family to be
found in the Americas and is by far the biggest cat on the continent.
]
Relevant (Y/N)? y
Result 8
[
  URL: journals.plos.org/plosone/article?id=10.1371/journal.pone...
  Title: PLOS ONE: Genetic Diversity and Population Structure of ...
  Summary: Oct 26, 2016 ... Mesoamerican jaguars ( Panthera onca ) have been extirpated from over ...
South American populations, thus making Mesoamerican jaguars a ...
]
Relevant (Y/N)? y
Result 9
[
  URL: www.nationalgeographic.com/animals/mammals/j/jaguar/
  Title: Jaguar | National Geographic
  Summary: Find out why Native American cultures revere this big cat and how modern
human actions have helped put them on the ... Scientific Name: Panthera onca.
```

```
]
Relevant (Y/N)? y
Result 10
[
  URL: https://prehistoric-fauna.com/Panthera-onca-augusta
  Title: Pleistocene North American jaguar (Panthera onca augusta)
  Summary: Pleistocene North American jaguar (Panthera onca augusta Leidy, 1872). Order:
  Carnivora. Family: Felidae. Genus: Panthera. Species: P. onca. Dimensions: ...
]
Relevant (Y/N)? y
```

```
=====
FEEDBACK SUMMARY
Precision: 1.0
Desired precision reached. Done!
```

```
rasbar@gcvm-1:~/cs6111/project-1
$
```