Information Need 1

- a. Rock of Ages musical future tickets
- b. Google, Bing
- c. The number of duplicates removed when results were pooled: 2
- d. The final pool size after duplicates are removed: 14
- e. The total number of relevant results: 9

f.

Number	Result URL	Is it relevant?	Relevance : why?
1	https://rockofagesm usical.com/	yes	It has direct links to buy tickets of 2021 for the musical.
2	https://rockofagesm usical.com/tickets/	yes	It has the same link of the url to buy tickets above.
3	https://www.telechar ge.com/Off-Broadwa y/Rock-of-Ages/Ove rview	no	It lists the past musicals in 2019, not 2021.
4	https://www.stubhub .com/rock-of-ages-at lanta-tickets/perform er/100282433/	no	It only provides information about the musical in Atlanta without links to buy tickets.
5	https://www.ticketsm arter.com/rock-of-ag es	yes	It provides a search engine that lists and enables filtering of all tickets of the musical in 2021.
6	https://www.headout .com/broadway/rock -of-ages-e-10604/	no	It only have information and comments about the musical.
7	http://www.musicalth eatrenews.com/rock -of-ages-tour.html	yes	It lists information about the future musical show and links to buy tickets of 2021.
8	https://www.stereob oard.com/rock-of-ag es-tickets/new-york	no	It mainly has information on the accommodation where the musical is held, not the musical tickets to buy.

9	https://www.ticketma ster.com/rock-of-age s-touring-tickets/arti st/1291934	yes	Provides information and a direct platform to book tickets for the 2021 musical.
10	https://www.ticketnet work.com/performer s/rock-of-ages-ticket s	yes	It offers tickets for the musical in the US. We can directly book tickets here.
11	https://www.cheapot icketing.com/perfor mers/rock-of-ages	yes	It offers tours, schedules, and tickets for the musical in US. We can directly book tickets here.
12	https://www.stubhub .com/rock-of-ages-ti ckets/grouping/3777 45/	yes	Provides information and a direct platform to book tickets for the 2021 musical.
13	https://www.tickets4 musical.com/rock-of -ages-tickets	yes	Provides a link to book tickets for the 2021 musical.
14	https://www.rockofa geshollywood.com/	no	Only dead links to book tickets.

g.

Metric	Search Engine 1 = Google	Search Engine 2 = Bing
Precision at rank 5	0.4	0.8
Precision at rank 8	0.375	0.75
Precision at rank 12	0.25	0.5
Average Precision at rank 8 (calculating only the relevant)	0.6095238095238095	0.9150793650793649

Information Need 2

- a. colored contact lenses wear clean
- b. Google, Bing
- c. The number of duplicates removed when results were pooled: 0
- d. The final pool size after duplicates are removed: 16

Number	Result URL	Is it relevant?	Relevance : why?
1	https://www.everyda yhealth.com/skin-be auty/colored-contact -lenses.aspx#:~:text =Even%20if%20you %20don't,24%20hou rs%20before%20we aring%20them.	yes	Detailed instructions on how to wear, clean and wash colored contact lenses
2	https://www.streetdirectory.com/travel_guide/26309/health/how_to_care_for_color_contact_lenses.html	yes	Different suggestions for different types of lenses including colored contact lenses.
3	https://www.nvisionc enters.com/contacts /colored-contact-risk s/	no	Mainly about eye infections and possible hazards of colored contact lenses, lack suggestion for wearing and cleaning.
4	https://honeycolor.c om/help/lens-care-ti ps	no	Only instructions for wearing contact lenses not colored contact lenses.
5	https://chiaralens.co m/en/blog/how-to-ta ke-care-of-colored-c ontact-lenses/	yes	Specified tips for taking care of colored contact lenses.
6	https://www.cdc.gov/ contactlenses/decor ative-contacts.html	yes	Suggestions for cleaning all types of lenses including colored contact lenses.
7	https://www.lens.me /blog/how-long-can- you-wear-clear-or-c olored-contact-lense s-for	yes	Tips for wearing steps of colored contact lenses.

8	https://www.1800co ntacts.com/eyesocie ty/colored-contact-le nses/	yes	Detailed tips for both wearing and cleaning colored contact lenses.
9	https://www.allabout vision.com/contacts/ colored-contacts-ast igmatism/	yes	Professional tips from doctors to wear and clean colored contact lenses.
10	https://www.refinery 29.com/en-us/color- contacts-safety	no	Mainly talk about how to choose colored contact lenses for festivals, lack information about wearing and cleaning suggestions.
11	https://www.perfectl ensworld.com/article s/clean-contact-lens es-properly	no	Only about contact lenses not colored ones.
12	https://www.wikihow .com/Clean-Contact- Lenses	no	Only about cleaning contact lenses not colored ones.
13	https://www.youtube .com/watch?v=w4ad 2YQOxRU	no	Video about cleaning contact lenses not colored ones.
14	https://www.verywell health.com/best-con tact-lens-solutions-4 580534	no	Only about contact lenses not colored ones.
15	https://eyecandys.co m/	no	Totally an ecommerce website for selling colored contact lenses, no suggestions for wearing or cleaning.
16	https://www.freshlookcontacts.com/	no	Totally an ecommerce website for selling colored contact lenses, no suggestions for wearing or cleaning.

Metric	Search Engine 1 = Google	Search Engine 2 = Bing
Precision at rank 5	0.6	0.2
Precision at rank 8	0.75	0.125
Precision at rank 12	0.5	0.08333333333333333
Average Precision at rank 8 (calculating only the relevant)	0.7884920634920635	1.0

Information Need 3

- a. best Italian wine how choose
- b. Google, Bing
- c. The number of duplicates removed when results were pooled: 3
- d. The final pool size after duplicates are removed: 13
- e. The total number of relevant results: 12
 (There is one result duplicated but shares same rank location 6 in both Google and Bing: https://www.winemag.com/2019/06/18/a-beginners-guide-to-italian-wine/)

f.

Number	Result URL	Is it relevant?	Relevance : why?
1	https://www.thespr uceeats.com/top-it alian-wines-to-try-3 511441	yes	Lists top brands of Italian wine.
2	https://www.delish. com/entertaining/w ine/advice/g2445/it alian-wine-guide/	no	Only some weird links to urls mainly about wine in other countries and an advertisement for wine tasting classes, no details about how to choose the best Italian wines.
3	https://winefolly.co m/deep-dive/italian _red-wines/	yes	Detailed guides for choosing best Italian wines and brands.
4	https://www.indepe ndent.wine/2020/0 2/19/italian-red-win e-a-complete-guid e-to-finding-your-fa yourite/	yes	A complete guide to teach people how to choose Italian wines.

5	https://www.indepe ndent.wine/2020/0 4/07/the-ultimate-g uide-to-the-best-ita lian-wine/	yes	A complete guide to choose the best Italian wines with maps and tasting notes.
6	https://www.winemag.com/2019/06/18/a-beginners-guide-to-italian-wine/	yes	Guide for beginners to choose best Italian wines based on their labels and countries of origin.
7	https://wine.lovetok now.com/wiki/Best _Italian_Wines	yes	Detailed tips to choose best Italian wines based on brands and countries of origin.
8	https://www.winesc holarguild.org/blog/ top-ten-italian-red- wines-beginner-gui de.html	yes	Provides ten best Italian wines for beginners.
9	https://www.revers ewinesnob.com/se arch/label/italy/	no	It is actually a wine brand's website to introduce their products.
10	https://italianrestau rant.webagency22. com/how-to-choos e-an-italian-wine/	yes	Good article including detailed steps to choose best Italian wines with illustration.
11	https://wineindustr yadvisor.com/2019 /12/11/wine-specta tors-selection-of-b est-italian-wine-pro ducers	yes	Recommendations of Italian wine from wine Spectators.
12	https://blog.vinfolio .com/2018/03/28/t he-best-italian-win e-producers-to-add -to-your-collection/	yes	Introduce top Italian wine producers and their brands.
13	https://www.forbes.	yes	Recommends Best

com/sites/toml nd/2018/12/21 t-italian-wines- e-year/?sh=42 1af33d6	, i
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g.

Metric	Search Engine 1 = Google	Search Engine 2 = Bing
Precision at rank 5	0.8	0.4
Precision at rank 8	0.875	0.625
Precision at rank 12	0.5833333333333334	0.4166666666666667
Average Precision at rank 8 (calculating only the relevant)	0.8260204081632653	0.4692857142857143