Compose a valid URL for job posting search on indeed.com

A valid URL for job posting search on indeed.com has the following components:

* Job title (with estimated salary)
* City, State
* Job type
* Experience level
* Sort by
* Distance
* Page

Description

1. Job title (with estimated salary)

* Job title only
  + Rule:
    - Query: q=job+title
    - Words in a job title are separated by “+”
* Job title with estimated salary:
  + Rule:
    - Query: q=job+title+%24\d{1, 3}%2C\d{3}
    - Estimated salary is optional in search
    - Estimated salary is appended to job title and they are separated by “+”
    - Search for jobs with estimated salary of $ \d{1,3}, \d{3} or above
* More examples:
  + Software engineer jobs
    - https://www.indeed.com/jobs?q=software+engineer&start=10
  + Data scientist jobs with estimated salary of $150,000 or above
    - <https://www.indeed.com/jobs?q=data+scientist+%24150%2C000&start=20>

1. Location

* Rule:
  + Query: l=City%2C+State
  + Words in city name are separated by “+”
* More Examples:
  + Jobs in San Francisco, CA
    - <https://www.indeed.com/jobs?q=&l=San+Francisco%2C+CA&start=0>
  + Jobs in New York, NY
    - <https://www.indeed.com/jobs?q=&l=New+York%2C+NY&start=10>

1. Job type

* Possible job types:
  + Full-time, Contract, Part-time, Internship, Temporary, Commission
* Rule:
  + jt=jobtype
  + “-” is removed from job types
* More examples:
  + Software engineer internship in New York, NY
    - <https://www.indeed.com/jobs?q=software+engineer&l=New+York%2C+NY&jt=internship&start=10>
  + Part-time software engineer jobs in New York, NY
    - <https://www.indeed.com/jobs?q=software+engineer&l=New+York%2C+NY&jt=parttime&start=40>

1. Experience level

* Possible values:
  + Entry level, Mid level, Senior level
* Rule:
  + Query: explvl=experience\_level
  + Words are separated by “\_”
* More examples:
  + Entry level software engineer jobs in New York, NY
    - <https://www.indeed.com/jobs?q=software+engineer&l=New+York%2C+NY&explvl=entry_level&start=40>

1. Sort by

* Returned results are sorted by relevance by default
* Returned results can also be sorted by date
* Rule
  + Query: sort=date
  + Skip this part if default (sort by relevance) is desired
* More examples:
  + Senior level software engineer jobs in New York, NY, results sorted by date
    - <https://www.indeed.com/jobs?q=software+engineer&l=New+York%2C+NY&explvl=senior_level&sort=date&start=20>

1. Distance

* Job posting search radius
* Default values: 25 miles
* Possible values: 0-150 miles
* Rule:
  + Query: radius=\d{1,3}
  + Skip this part if default value is desired
  + If the entered radius is larger than 150, search with radius of 150 miles will be performed
* More examples:
  + Software engineer jobs within 50 miles of New York, NY
    - <https://www.indeed.com/jobs?q=software+engineer&l=New+York%2C+NY&radius=50>

1. Page

* The ith page of returned results
* Rule:
  + Query: start=\d{1, 4}
  + The number, n, should be a multiple of 10, indicating the (n/10 + 1)th page of returned results
  + The maximum number of pages returned from a search is 100.
* More examples:
  + The 10th page of software engineer jobs in New York, NY
    - <https://www.indeed.com/jobs?q=software+engineer&l=New+York,+NY&start=90>

Putting all components together

A valid URL for a search on indeed.com has the following form:

https://www.indeed.com/jobs?q=?&l=?&radius=?&explvl=?&sort=?&start=?