**Radix sort report points:**

1. Who invented radix sort? - [Herman Hollerith](https://en.wikipedia.org/wiki/Herman_Hollerith)
2. Radix sort first phase & Radix sort final phase (design included within the points)
3. Development of the algorithm between the first and final phase
4. Radix origin idea or based idea
5. Radix sort application over worldwide
6. Radix over the year development
7. Radix sort complexity (time and space) - *based on quick sort*
8. Radix sort advantage and disadvantage
9. Stability of radix sort
10. Compare radix sort with other sorting algorithms

**Report Points Sequence:**

1. Founder
2. Origin Idea
3. Development
4. Phases
5. Radix sort with count sort (verification)
6. Complexity
7. Stability
8. Comparison
9. Advantage and disadvantage
10. Application

**Application ideas:**

1. Healthcare monitoring system
2. Techstore PC building software
3. Sorting words in a dictionary

**Keywords to use to find articles in Google scholar:**

1. *Who invented radix sort?:*

- Keywords: "radix sort history", "invention of radix sort", "radix sort origin", "radix sort inventor", "Hermann Grassmann radix sort"

2. *Radix sort first phase & Radix sort final phase (design included within the points):*

- Keywords: "radix sort algorithm phases", "radix sort design", "radix sort implementation", "radix sort methodology"

3. *Development of the algorithm between the first and final phase:*

- Keywords: "evolution of radix sort algorithm", "radix sort algorithm development", "radix sort algorithm improvement", "radix sort optimization"

4. *Radix origin idea or based idea:*

- Keywords: "origin of radix sort", "inspiration for radix sort", "radix sort concept", "radix sort theory", "foundation of radix sort"

5. *Radix sort application over worldwide:*

- Keywords: "applications of radix sort", "radix sort usage", "radix sort implementation", "radix sort real-world applications", "radix sort in practice"

6. *Radix over the year development:*

- Keywords: "evolution of radix sort", "radix sort history", "radix sort advancements", "radix sort progress", "radix sort developments over time"

7. *Radix sort complexity (time and space) - based on quick sort:*

- Keywords: "radix sort time complexity", "radix sort space complexity", "radix sort efficiency", "radix sort performance analysis", "radix sort complexity analysis"

8. *Radix sort advantage and disadvantage:*

- Keywords: "radix sort pros and cons", "advantages of radix sort", "disadvantages of radix sort", "benefits of radix sort", "limitations of radix sort"

9. *Stability of radix sort:*

- Keywords: "stability of radix sort", "radix sort stability analysis", "radix sort stability proof", "is radix sort stable?", "radix sort stability characteristics"

10. *Compare radix sort with other sorting algorithms:*

- Keywords: "radix sort vs other sorting algorithms", "radix sort comparison", "radix sort versus quicksort", "radix sort performance comparison", "radix sort benchmarking"

**Google scholar links:**

* Radix sort founder & early development - [Radix sort - Wikipedia](https://en.wikipedia.org/wiki/Radix_sort#:~:text=Radix%20sort%20dates%20back%20as,Seward.)
* Radix sort founder - <https://www.linkedin.com/pulse/first-sorting-algorithm-founding-ibm-nilesh-d/>
* Development of radix sort - [A new efficient radix sort | IEEE Conference Publication](https://ieeexplore.ieee.org/abstract/document/365721)
* Radix sort comparison - [An Analysis of Non-Comparison Based Sorting Algorithms](https://academicworks.cuny.edu/ny_pubs/891/)
* Radix sort based on count sort (verification) - [Verification of Counting Sort and Radix Sort | SpringerLink](https://link.springer.com/chapter/10.1007/978-3-319-49812-6_19)
* Radix sort development - [A Fast Radix Sort](https://academic.oup.com/comjnl/article-pdf/35/6/636/1009342/35-6-636.pdf)
* Radix sort origin idea - <https://dl.acm.org/doi/abs/10.1145/2588555.2610522?casa_token=OrEitjdaDW4AAAAA:zgGylX4ShPDW810nlooOSahLCyDoHB11IQEgvEv6Rr9GpB475HdYSQ8Mo5tubVVOWt99oIyVEZjjSg>
* Development of radix sort - [Fast Radix Sort | The Computer Journal | Oxford Academic](https://academic.oup.com/comjnl/article-abstract/35/6/636/352883)
* Comparison and advantage - [(PDF) Comparative Analysis of Bucket and Radix Sorting](https://www.researchgate.net/publication/317799415_Comparative_Analysis_of_Bucket_and_Radix_Sorting)
* Stability - [Radix sort stability](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.usenix.org%2Flegacy%2Fpublications%2Fcompsystems%2F1993%2Fwin_mcilroy.pdf&h=AT04ehi_5XeVro6OpXEP3ADJNN4TE_iJHzKyhADcmB5jH2BTu9yFijnRQKKDjZkmy239mQUnG187EEjyTvc6UKw0BWXYJgdpeluL89_sMzV-D5ZMf38AviP6tmLXvwPOphgsHw)