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Full Stack Project – Stack Overflow/Quora-like Forum Clone:

Video: https://www.youtube.com/watch?v=irmqbkIUOp8&ab_channel=Elaina

Code: <https://github.com/yh0010/database-web-design-in-sql-php>

Hey, elainahuang! My Page Main Dashboard Log Out

Heap Overflow

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Following questions are found:

[What is a bubble sort good for?](#)
Do bubble sorts have any real world use? Every time I see one mentioned, it's always either: A sorting algorithm to learn with. An example of a sorting algorithm not to use.

[Non-Recursive Merge Sort](#)
Can someone explain in English how does Non-Recursive merge sort works?

[Why is merge sort worst case time \$O\(n \log n\)\$?](#)
Can someone explain to me in simple English or an easy way to explain it?

[Merge sort running time](#)
I know that the running time of merge sort is $O(n \lg(n))$ and that merge sort is a comparison sort, which also means that it takes $\Omega(n \log n)$ in the worst case to sort a list. Can I therefore conclude that the running time of merge sort is $\theta(n \lg n)$?

[Implementing Heap Sort?](#)
I am attempting to implement Heap sort in my program to learn more about sorting algorithms. However I am running in to an issue. heap sort heap sort heap sort i dont understand heap sort.

[Cache efficient heap for heap sort?](#)
Known as quick sort: it is fast on avg case but I can't use it in my project because of $O(n^2)$ worst case. quick sort quick sort i need to know more about q...

Answers

Heap Overflow

[Solved]

What is a bubble sort good for?
Do bubble sorts have any real world use? Every time I see one mentioned, it's always either: A sorting algorithm to learn with. An example of a sorting algorithm not to use.

Asked by : qdehqkbr
Posted at : 2018-06-06 09:21:42
User Status : Basic
Points : 349

Answers:

Select Best Answer:
It depends on the way your data is distributed - if you can make some assumptions. One of the best links I've found to understand when to use a bubble sort - or some other sort, is this - an animated view on sorting algorithms: <http://www.sorting-algorithms.com/>

bubble sort

0

Answered by : elainahuang
Posted at : 2022-08-27 00:00:05
User Status : Basic
Points : 0

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It doesn't get used much in the real world. It's a good learning tool because it's easy to understand and fast to implement. It has bad ($O(n^2)$) worst case and average performance. It has good best case performance when you know the data is almost sorted, but there are plenty of other algorithms that have this property, with better worst and average case performance.

Answered by : cxtlyoaa
Posted at : 2018-06-06 14:32:51
User Status : Basic
Points : 30

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It depends on the way your data is distributed - if you can make some assumptions. One of the best links I've found to understand when to use a bubble sort - or some other sort, is this - an animated view on sorting algorithms: <http://www.sorting-algorithms.com/>

Game Design – Backroom Rescue, A 3rd Person Shooting Game

Video Trailer: <https://www.youtube.com/watch?v=StS-S0assco&feature=youtu.be>

Code: https://github.com/yh0010/GameDesign_BackroomRescue_Unity_CSharp



Javascript Web Project – Z-Algorithm

Web: <https://s3.us-west-1.amazonaws.com/elaina-huang.com/zalgo.html>

Z Algorithm

[GitHub](#)

AUTHOR: Elaina Huang AFFILIATION: NYU ALGO2 Course Project

What is Z Algorithm?

The Z algorithm, an efficient string matching mechanism, operates in linear time, specifically $O(n + m)$, to locate all occurrences of a given pattern within a string. This algorithm is built on the premise of the Z-array, which is the same length as the input string. Each element, $Z[k]$, of this Z array signifies the length of the longest matching substring that begins from the input

A A B A A B

Index	0	1	2	3	4	5
Text	A	A	B	A	A	B
Z Value	0	1				
R Value	0					
L Value	0					

Let's try it yourself

Text:

Input a string, REQUIRED. Ex. aabaab

Pattern:

Input a string, OPTIONAL. Ex. aab

Cryptography – Fully Homomorphic

Video: https://www.youtube.com/watch?v=R6yZd1LJ9mc&ab_channel=Elaina

Code: <https://github.com/yh0010/applied-crypto-project-2>

Machine Learning Modeling – Federated Learning vs. Differential Privacy

Code: <https://github.com/yh0010/Federated-Learning-v.-Differential-Privacy>

More projects on Text Analytics, Computer Graphics, AWS, Web Crawlers, etc. Can be provided upon request.