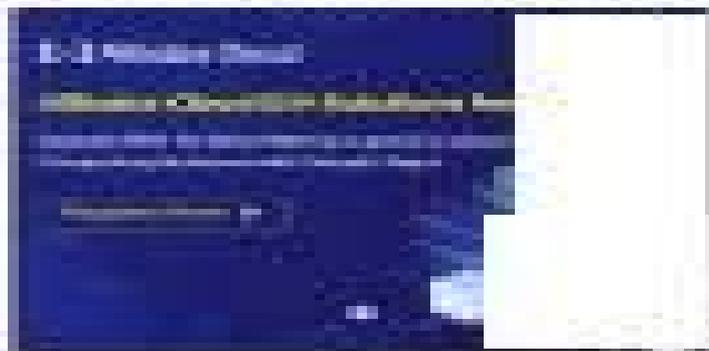


Top 18 Algorithm Interview Questions & Answers



Q1) What is an Algorithm?

<https://www.youtube.com/watch?v=93101110000>
<https://www.geogebra.org/m/93101110000>

Q2) Explain what is an algorithm in computing?

An algorithm is a finite set of well-defined, unambiguous, and computable instructions that are used to solve a problem. It starts with an input and produces an output. The instructions are executed in a specific order, and the algorithm terminates when it reaches a final state or when it has completed all the steps that are necessary to produce the output.

Q3) Explain what is Quick Sort algorithm?

Quick Sort algorithm is a divide-and-conquer algorithm that sorts an array of elements. It works by selecting a pivot element and partitioning the array around it. The elements less than the pivot are moved to the left, and the elements greater than the pivot are moved to the right. This process is repeated recursively until the array is sorted.

- a) Elements less than the pivot element
- b) Pivot element
- c) Elements greater than the pivot element

Q4) Explain what is Time complexity of Algorithm?

Time complexity of an algorithm tells you the total time required by the program to run on a computer. It is usually expressed by using the Big O notation.

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Planet in Peril Planetary Dangers : Planetary Solutions
Michael D. Bess,2022-10-13 Written by an award winning historian of science and technology Planet in Peril describes the top four mega dangers facing humankind climate change nukes pandemics and artificial intelligence It outlines the solutions that have been tried and analyzes why they have thus far fallen short These four existential dangers present a special kind of challenge that urgently requires planet level responses yet today s international institutions have so far failed to meet this need The book lays out a realistic pathway for gradually modifying the United Nations over the coming century so that it can become more effective at coordinating global solutions to humanity s problems Neither optimistic nor pessimistic but pragmatic and constructive the book explores how to move past ideological polarization and global political fragmentation Unafraid to take intellectual risks Planet in Peril sketches a plausible roadmap toward a safer more democratic future for us all

The NeuroGeneration Tan Le,2020-01-21 Brain science is at the dawn of a new era and the technologies emerging as a result could forever alter what it means to be human Welcome to what tech pioneer and inventor Tan Le calls the NeuroGeneration It will blow your mind The human brain is perhaps the most powerful and mysterious arrangement of matter in the known universe New discoveries that unravel this mystery and let us tap into this power offer almost limitless potential the ability to reshape ourselves and our thought processes to improve our health and extend our lives and to enhance and augment the ways we interact with the world around us It may sound like the stuff of science fiction but it is quickly becoming reality In The NeuroGeneration award winning inventor Tan Le explores exciting advancements in brain science and neurotechnology that are revolutionizing the way we think work and heal Join Le as she criss crosses the globe introducing the brilliant neurotech innovators and neuroscientists at the frontiers of brain enhancement Along the way she shares incredible stories from individuals whose lives are already being transformed by their inventions an endurance racer

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surveillance state He interviews Pentagon leadership and tours U S Defense Department offices in Silicon Valley revealing deep tensions between the military and tech giants who control data chips and talent Yet he concludes that those tensions inherent to our democratic system create resilience and resistance to autocracy in the face of overwhelmingly powerful technology Engaging and direct Four Battlegrounds offers a vivid picture of how AI is transforming warfare global security and the future of human freedom and what it will take for democracies to remain at the forefront of the world order 950

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