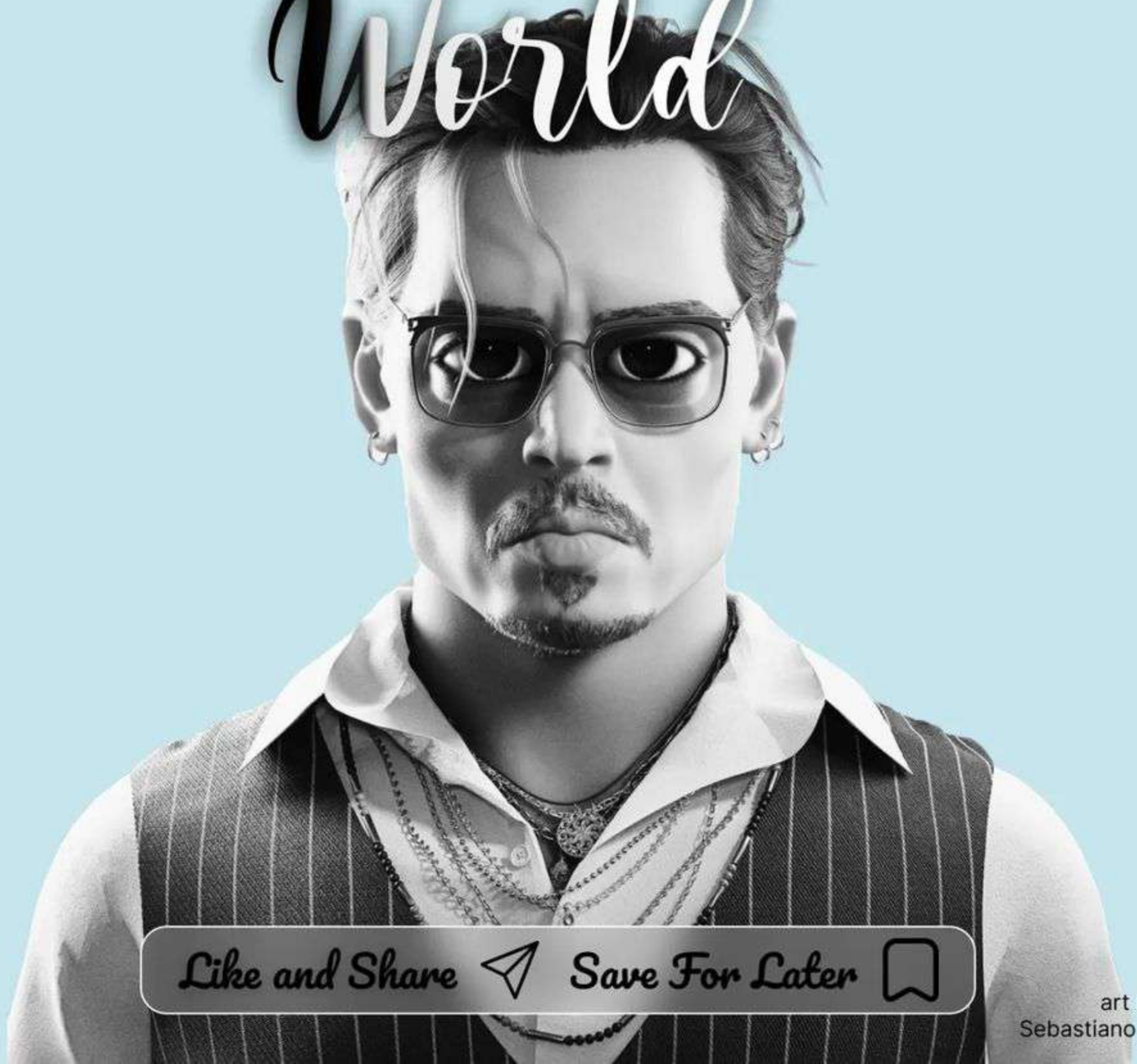


ALGORITHM IN REAL *World*



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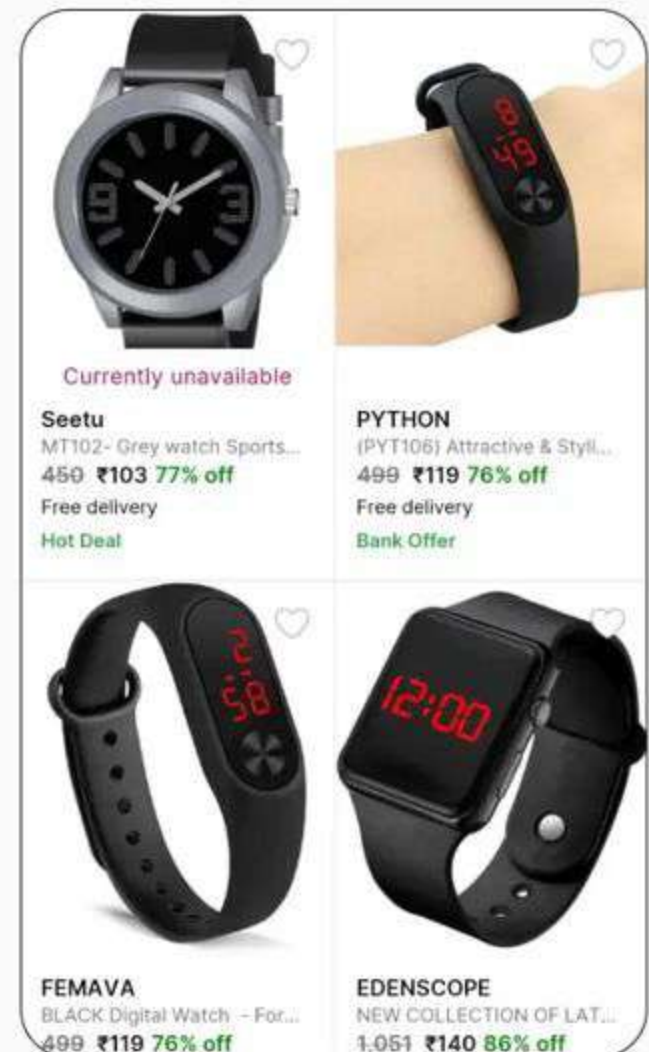
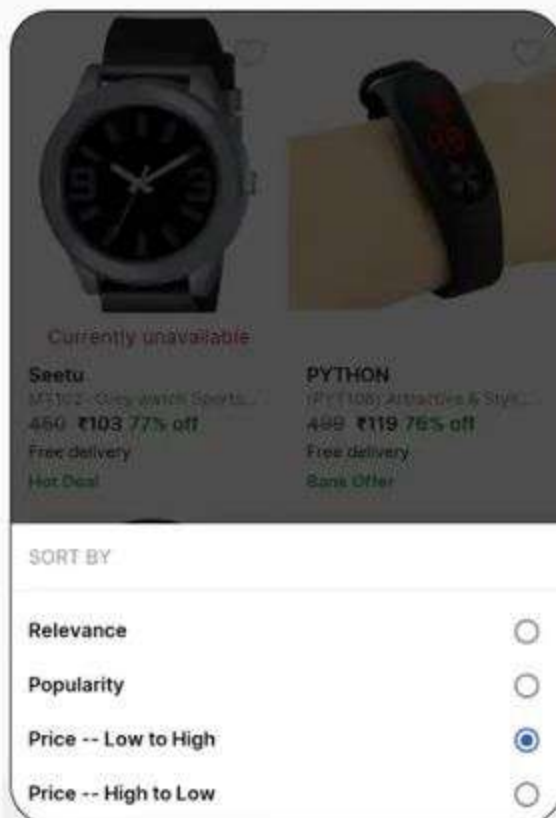
Save For Later



Sorting Algorithm

E-commerce websites

Sorting algorithms are used to sort product lists by various criteria such as price, rating, and popularity



sort by price - low to high

Searching Algorithm

Web search engines

Finding relevant results from a huge database of web pages



File search

Finding specific files on a computer



Dijkstra's Algorithm

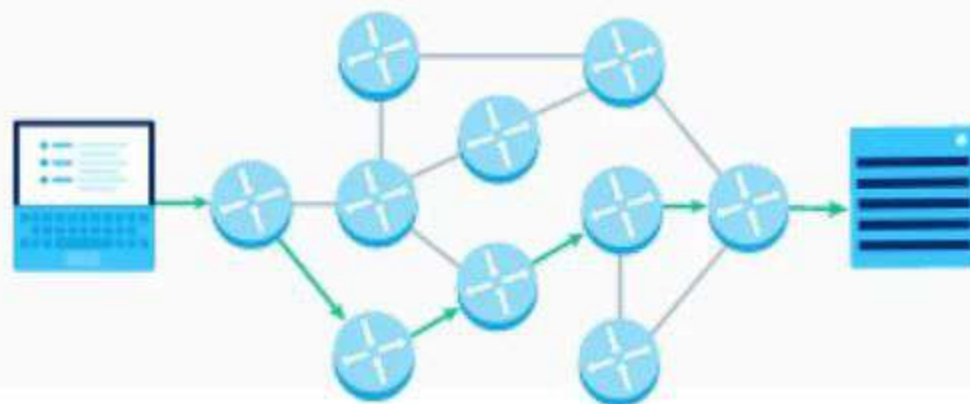
GPS navigation

Finding the shortest route between two points



Network routing

Finding the shortest path between two nodes in a communication network



Backtracking

Maze solving

Finding a path from a starting point to an end point in a maze , solve N-queen



Sudoku solving

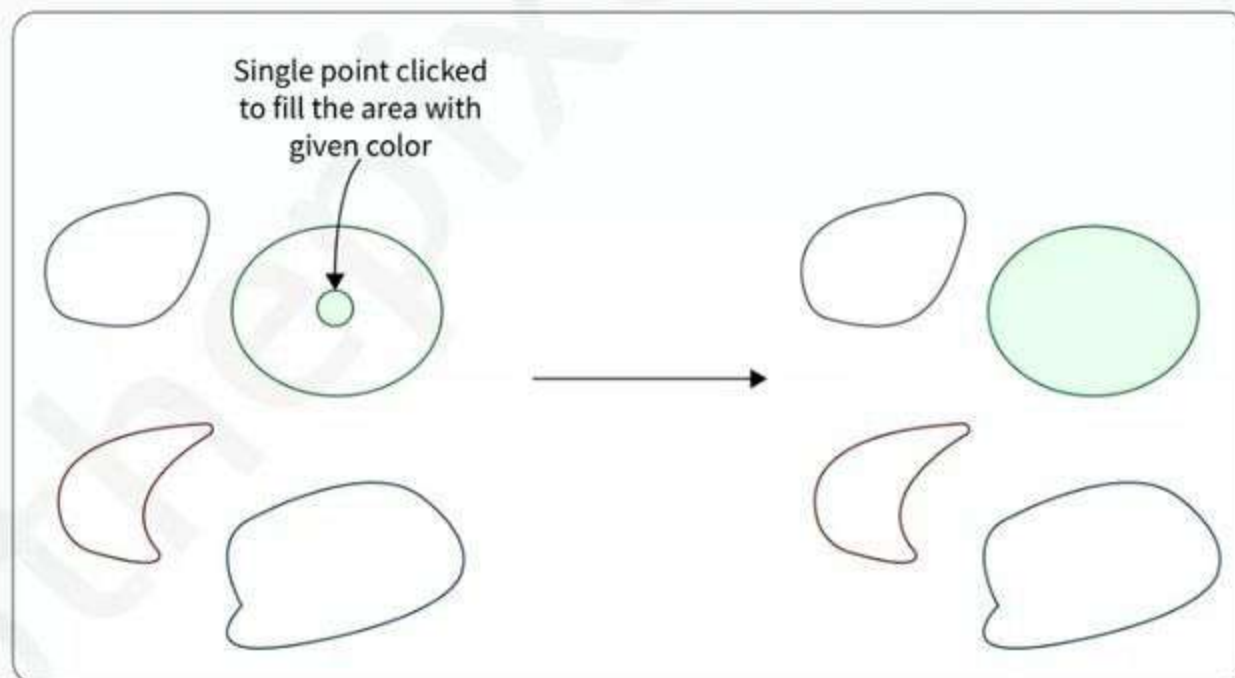
Finding the solution to a Sudoku puzzle by trying different numbers in each cell



Flood Fill Algorithm

Bucket Fill Tool of the Paint

this algorithm is used in the bucket fill tool of the paint program to fill the bounded area with a single color



Huffman coding

Backup compression

Google Photos uses Huffman coding to compress the images that are backed up

