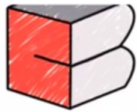


FLOOD FILL ALGORITHM

Refer gfg for better understanding :-

<https://www.geeksforgeeks.org/flood-fill-algorithm-implement-fill-paint/>



GRAPHS : FLOOD FILL

PRATEEK NARANG
CODING BLOCKS



FLOOD FILL - THE COLORING ALGORITHM

24 August 2017 16:13

ALGORITHM

- Flood Fill is a simple variant of BFS/DFS that can be used to label (colour) the various connected components present in a graph.
- It is generally performed on **implicit graphs (2d matrices)**
- Starting from a particular cell we call 'DFS' on the neighbouring cells to colour them. Neighbours can be '4'(up, down, left, right) or '8' if we include diagonals also.

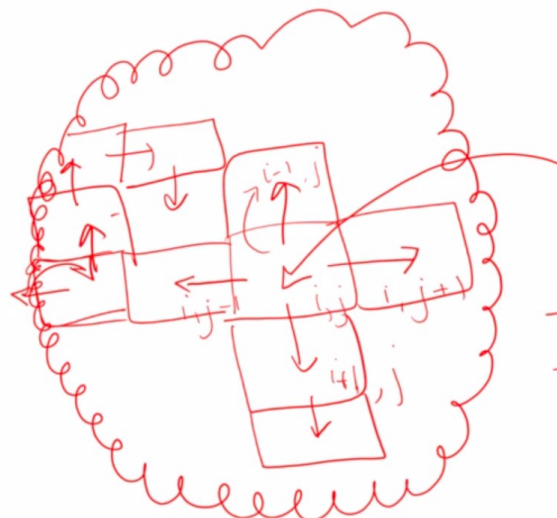
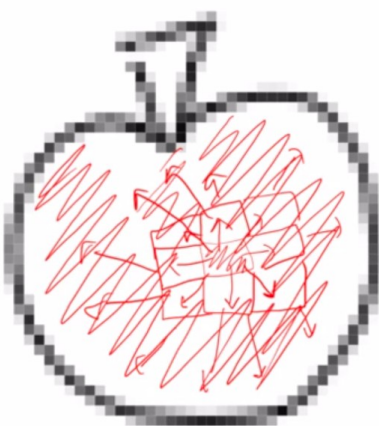
Before Colouring



various connected components present in a graph.

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Before Colouring



$f(i+1, j)$
 $f(i-1, j)$
 $f(i, j+1)$
 $f(i, j-1)$

After Colouring