Flood Fill Algorithm

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1. #include <stdio.h>
2. #include <conio.h>
3. #include <graphics.h>
4. // Function to implement Flood Fill Algorithm
5. void flood fill(int x, int y, int new color, int old color)
6. {
7. if (getpixel(x, y) == old color)
     a. {
     b. putpixel(x, y, new color); // Fill the pixel
      c. flood fill(x + 1, y, new color, old color); // East
      d. flood_fill(x - 1, y, new_color, old_color); // West
      e. flood_fill(x, y + 1, new_color, old_color); // South
      f. flood fill(x, y - 1, new color, old color); // North
      g. delay(50);
8. }
9. }
10.
        int main()
11.
12.
        int gd = DETECT, gm;
        int x = 250, y = 200, radius = 10;
13.
14.
        int new color=RED, old color=0;
        initgraph(&gd, &gm, "C:\\Turboc3\\BGI"); // Initialize
  graphics mode
16.
        circle(x, y, radius);
17.
        delay(1000);
18.
        // Call boundary fill algorithm
        flood fill(x, y, new color, old color);
19.
20.
        getch(); // Wait for a key press
21.
        closegraph(); // Close the graphics mode
22.
        return 0;
23.
```