

## Boeadth first search 17 #Proclude Zstalio.n> void bfs ( Port a rio][10], Port o, Port u) Put f & glioj V; int sho] = 209; Porntf (" The nodes visited from %d:", w); f=0; or = -1; 9[++o]=u; S[w] = 1; Point (" %d", w); while (fz=0) u= 9[f++]; for (v=0; VLn; N++) ?f(a[u][v]) 9f (s[v] ==0 Pointf("%d", v); S[V]=1; 9[+to]=v:

```
Pointf (" \n");
3
Port maraco
   Pot n, ariotros, souvce, 9,3;
    Pointf ("In Enter no of nodes: ");
   scanf ("%d", fn);
   Porntf("In Enter the adjacency matrix:");
   for (9=0; 920; 9++)
       for (3=0; 310; 3++)
           scanf ("%d", farillij);
    for (source = 0; source Ln; source ++)
        bls (a, n, source);
   selvono;
3
```



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Depth frost seasch
97 # Include cstdio. n>
  # Proclude Looper. hy
  Port acitrios;
  Void dfs (Pint n, Pint cost [10] [10], Pint u, Pint s[])
    Pat V ;
    S[u] = 1;
    f00 (V=0; VLN; V++)
       ((costrutty) == 1) fl (sty) == 0))
       dfs(n, costsv, s),
  3
  void main ()
     Port of is costliottion, stion, con, flag;
     Point (" Enter the number of nodes: \n"):
     Scanf ( "%d", In);
     pointf (" Enter the adjacency motoria: 'n");
    f00(1=0; +Zn; ++)
        f00(3=0 ; 3Ln; 3++)
            scanf ("%d", & cost (7) [3]));
    9
```

```
con = 0;
 foo(3=0; 320; 3++)
    400 (9=0; 94n; 94+)
     ; O= Cijs
    dfs (n, cost, i, s);
    flag=0;
for (?=0; :11)
        ?f(s[?]= =0)
   if (flag = =0)
       CON = 1 ;
of (con ==1)
    Pointf(" Grouph is connected In ");
  Parnt ("Grouph is not connected in");
else
getches;
```



	Toda
	output for program 1 (BFS)
	Enter no of nodes: 7
	Enter the adjacency masters: 0111100
	1001010
	1000001
	11000010
	1000001
	0101000
	0010100
	The nodes visited from 0: 0123456
	The godes visited from 1: 1035246
	2 : 2061345
	3: 3015246
	4: 4061235
	5 . 5130246
	6; 69 HO135
	output for program 2 (DFS)
***************************************	Enter number of nodes:
	H
	Enter the adjacency matora
	0100
	0010
	000
	Grouph is connected
A.	9/4
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