Date	•	
Jale		

	Dis and BPS
	# include < stdin b>
	# enclude (stolib.h)
	# Alefine MAX_VERTICES 100
	typedy struct Graph ?
	int numbertines;
	int adj CMPX-VERTICES CMPX-VERTICES ; J Graph;
	,
	Graph & create Graph Cint num Vortice) &
	Graph * graph (Graph *) mallor (size of (Graph));
	graph > num Vertices = num Vertices;
-	int isi'
	for (i=0; i < nimberties; ++i) {
	for (j=0; j< num Vertices; ++j) ?
	graph > adj (i) (j) =0;
	3
	}
	return graph;
	3
	and addfolog (hough & and it waster) (2)
	void add Edge (graph & graph, int water, int water)
	2 graph -> adj Csrc) (dest)=1;
	graph > adj : [src]dest]=1;

	mid de (Graph & graph, int vertex, int visited ()) }
	visited Cuestra]=1;
	print ("Y.c", A'+ wrten);
	int i;
	for (i=0; i < graph > num Vertices ;++i)?
4	is (graph = adj Evertex) Ci) == 1 el Visited GJ) &
	ofs (proph ; i, visited);
	3
	void b/s (Graph * graph, int start Vertex, int visited 2 (3) &
	int queue CM#X-VERTICES);
_	int front = 0;
-	in = -1;
t	quew C++ near)= start Verteni
	Visited & Catart Verten]=1;
	print (" Breadth First Lands: In");
	while (front (= rear) &
	int surrent Vertex = queue [front ++]:
	prints ("Y.C", 'A'+ queront Vertin);
	inti;
	for (i=0; i < graph > pum lectices; +1 i) }
Commence of the second	4 (graph > and; Coursent Verten Ci) ==1 22.
	· visited 2(1))?
	quene [++ rear] = i;
	visited 2 [i] = 1.
	3
· 3	3
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Date :__

```
int main () {
    int numbertices = 7)
    Graph * graph = recate Graph (numbertines);
   addidge ( graph, 0,1);
   add Edge ( graph, 0,2);
   add Edge (graph, 1, 3);
   add Edge (graph, 1,4);
  add Edge (graph, 2,5);
   addldge graph, 2,6);
 int justed [ MAX_UERTICES]= 20%;
   int start Vertext = 0;
  frent (" Depth funt dearch");
    dfs (graph, start vertex, visites);
   int visited a (MAX-VEPTICES) = SOS;
     Hs (graph, startverten, viasto 2);
   Solus O;
Output:
 Depth-First Search (DFS): ABDECFG
 Brondth-first Search (BFS): ABCDF7G
    1001100
   1000011
   0100000
   0100000
   0010000
   <del>o 0 1 0 00 0</del>
```

Depth-First Search (DFS): A B D E C F G
Breadth-First Search (BFS): A B C D E F G
Process returned 0 (0x0) execution time: 0.043 s
Press any key to continue.

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