## 1. DFS and BFS Depth-first Search

Algorithm	Output	
DFS(G,a)	a	
For each node x adjacent to a	C	
lf x is not visited	h	
Mark x visited	g	
DFS(G, x)	Ĭ	
	<b>&amp;</b>	
	₹,	
Breadth-first Searc	h	(Front to back
Algorithm	Node Visited	Queue
BFS(G,a)	Q	α
Q = Queue()		empty
Mark a visited	þ	, b.
Q. enqueue (a)	d	bd
While Q is not empty:	_	d.
x = Q, dequeue()	h	dch.
for each vertex y adjacent to x:	•	ch.
If y is not visited	e	che
Mark y visited	F	chef.
Q. enqueue(y)		hef
$\alpha, \alpha, \alpha$		ef
		f
	q	empty 9
	*	gi
		empty