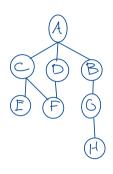
## BFS Algorithm Example

## Find the shortest path from A to H.

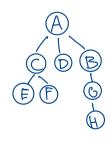


Node	Frontier	Visited
Α	A	A
C	C-/A	C
Ð	DIA	D
B	BTA	B
	Efc-A	臣
E F	F/c/A	F
G	F/D- A	G
(H)	G1B-A H1G-B-A	1+
$\cdot$	* *	

Path: H-G-B-A

Draw the Broadth-First Tree

 $V_{\Pi} = \{ V \in V / \exists V. \Pi \} \cup \{ A \} = \{ A, B, C, D, F, F, G, H \} = V$   $E_{\Pi} = \{ (V.\Pi, V) \mid V \in V_{\Pi} \setminus \{ A \} \}$ 



1) Prox Flow
2) Strongly Connected Components
3) primum spanning Tree.
4) Husfancer
5) Priser