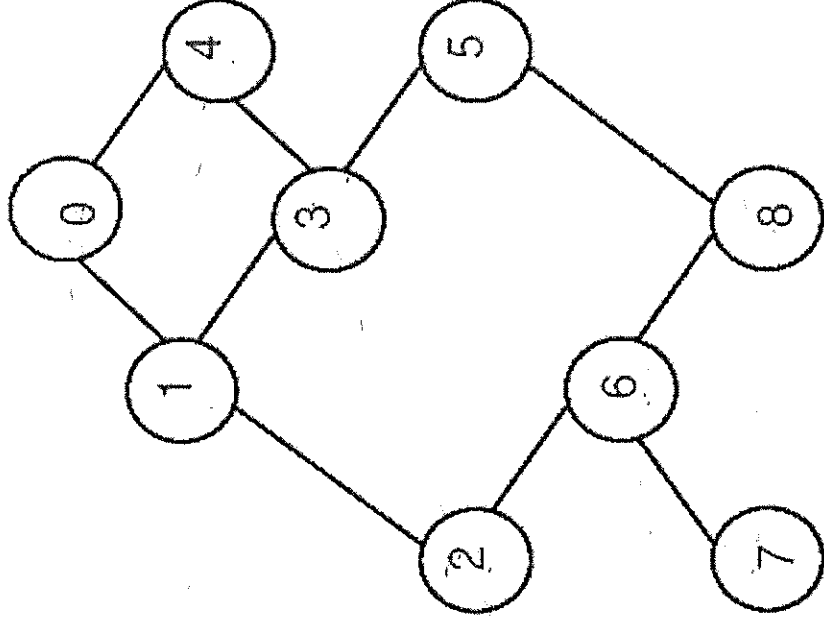


Implementation of bfs traversal

```
def bfs(graph, v):  
    all = []  
    Q = []  
    Q.append(v)  
    while Q != []:  
        v = Q.pop(0)  
        all.append(v)  
        for n in graph[v]:  
            if n not in Q and\  
                n not in all:  
                Q.append(n)  
    return all
```



all	Q	v	graphs
[]	[0]	0	
[0]	[0 , 4]	0	1, 4
[0, 1]	[1 , 2, 3]	1	1 , 2, 3
[0, 1, 4]	[2 , 3]	4	0 , 3
[0, 1, 4, 2]	[3 , 6]	2	1 , 6
[0, 1, 4, 2, 3]	[6 , 5]	3	1 , 4 , 5
[0, 1, 4, 2, 3, 6]	[5 , 7, 8]	6	7, 8
[0, 1, 4, 2, 3, 6, 5]	[7 , 8]	5	3 , 8
[0, 1, 4, 2, 3, 6, 5, 7]	[8]	7	6
[0, 1, 4, 2, 3, 6, 5, 7, 8]	[]	8	6 , 5

0, 1, 3, 5, 2, 6, 8, 7, 4

