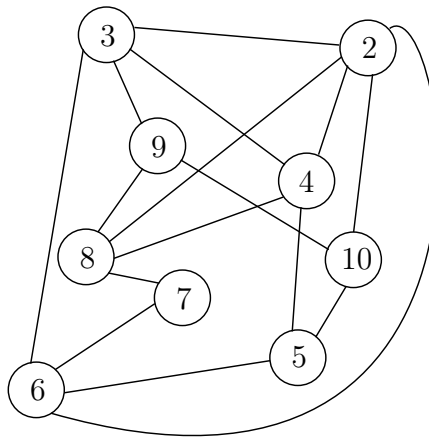


TRAVERSAL ALGORITHMS

Algorithms Analysis

github.com/erngv

1. Let G be the **undirected** graph of integers from 2 to 10 where there is an undirected edge between i and j if (i divides j evenly and $i < j$) or if $j = i + 1$. Show the result of performing breadth-first search on this graph starting at the vertex 2. Show $d[v]$ and $\pi[v]$ for all vertices v in G when BFS is done.



vertex	$d[v]$	$\pi[v]$
2	0	NIL
3	1	2
4	1	2
5	2	4
6	1	2
7	2	6
8	1	2
9	2	3
10	1	2

-

2