## NOTES ON QUEUES AND BREATH FIRST SEARCH

## ERIC MARTIN



Dequeuing a path from the front of the queue (right of list) and enqueuing its extensions to the back of the queue. [1]

[[±]]	
	[1]
ig[[1,4],[1,3],[1,2]ig]	
$\bigl[[1,4],[1,3]\bigr]$	[1,2]
$\big[[1,2,5],[1,4],[1,3]\big]$	
$\bigl[[1,2,5],[1,4]\bigr]$	[1, 3]
$\big[[1,2,5]\big]$	[1, 4]
$\left[ \left[ [1,4,8], \left[ 1,4,7 \right], \left[ 1,4,6 \right], \left[ 1,2,5 \right] \right]  ight]$	
ig[[1,4,8],[1,4,7],[1,4,6]ig]	[1, 2, 5]
[[1,4,8],[1,4,7]]	[1, 4, 6]
$\big[[1,4,6,11],[1,4,6,10],[1,4,6,9],[1,4,8],[1,4,7]\big]$	
$\bigl[[1,4,6,11],[1,4,6,10],[1,4,6,9],[1,4,8]\bigr]$	[1, 4, 7]
$\big[[1,4,7,12],[1,4,6,11],[1,4,6,10],[1,4,6,9],[1,4,8]\big]$	
$\big[[1,4,7,12],[1,4,6,11],[1,4,6,10],[1,4,6,9]\big]$	[1, 4, 8]
ig[[1,4,7,12],[1,4,6,11],[1,4,6,10]ig]	$\left[1,4,6,9\right]$
ig[[1,4,7,12],[1,4,6,11]ig]	[1, 4, 6, 10]
$\big[[1,4,6,10,13],[1,4,7,12],[1,4,6,11]\big]$	
$\big[[1,4,6,10,13],[1,4,7,12]\big]$	[1, 4, 6, 11]
[[1, 4, 6, 10, 13]]	[1, 4, 7, 12]
[]	$\left[1,4,6,10,13\right]$

COMP9021 Principles of Programming

Date: Session 2, 2015.