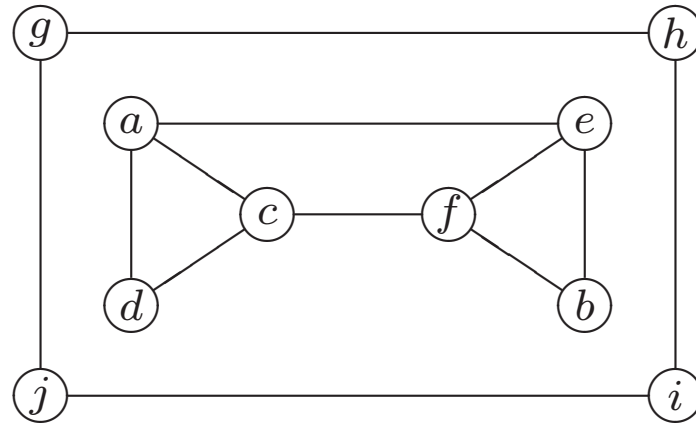
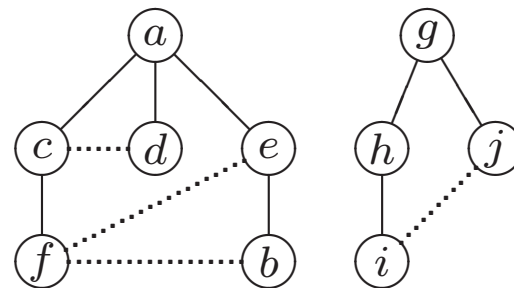


DFS vs BFS

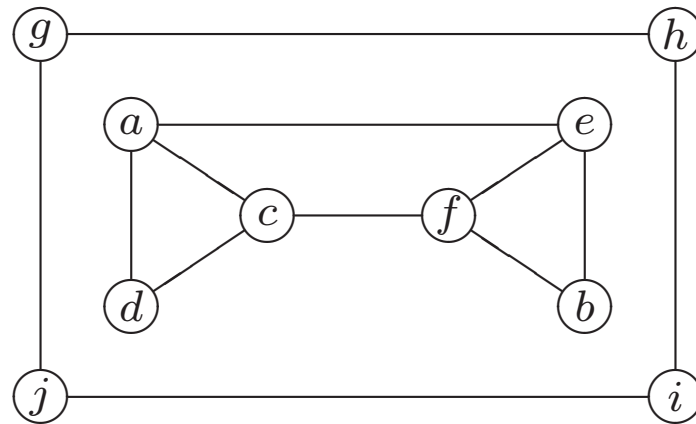
	DFS	BFS
Data structuur	een stapel	een queue
Aantal volgordes knopen	twee volgordes	één volgorde
Soorten takken (onger. grf)	tree en back edges	tree en cross edges
Toepassingen	samenhang, acycliciteit, 'articulation points'	samenhang acycliciteit minimum-tak pad
Complexiteit voor adj. matrix	$\Theta(V ^2)$	$\Theta(V ^2)$
Complexiteit voor adj. list	$\Theta(V + E)$	$\Theta(V + E)$



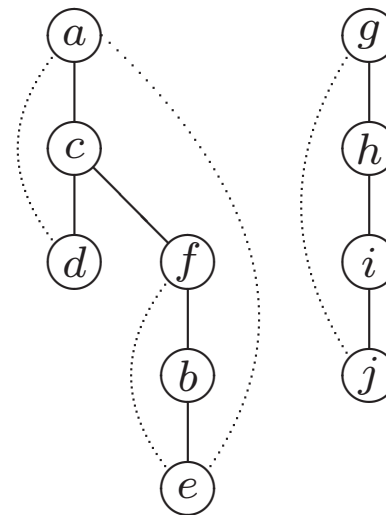
$a_1 c_2 d_3 e_4 f_5 b_6$
 $g_7 h_8 j_9 i_{10}$

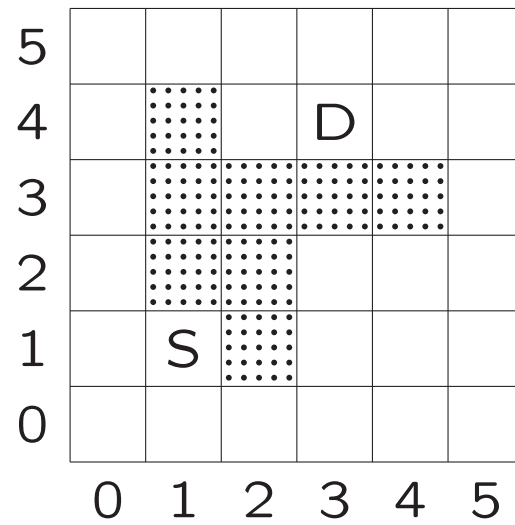


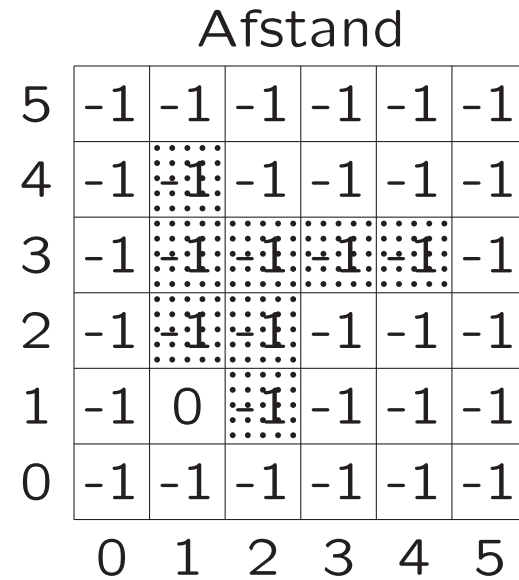
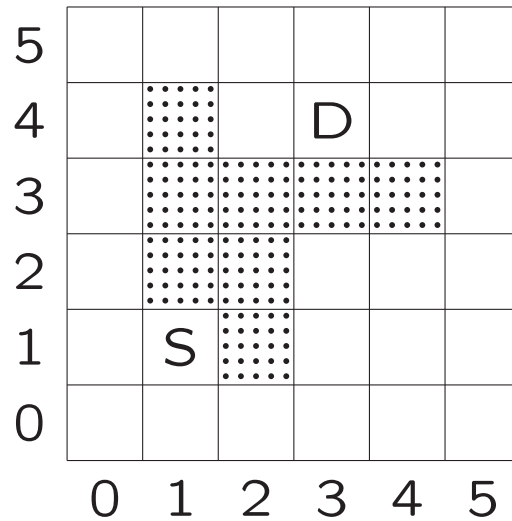
Depth-First Search



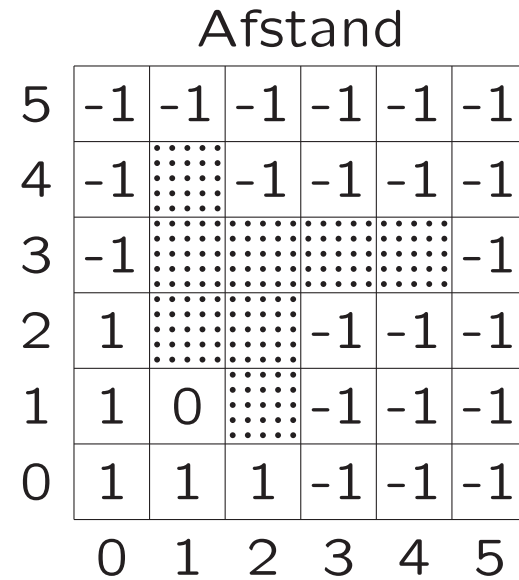
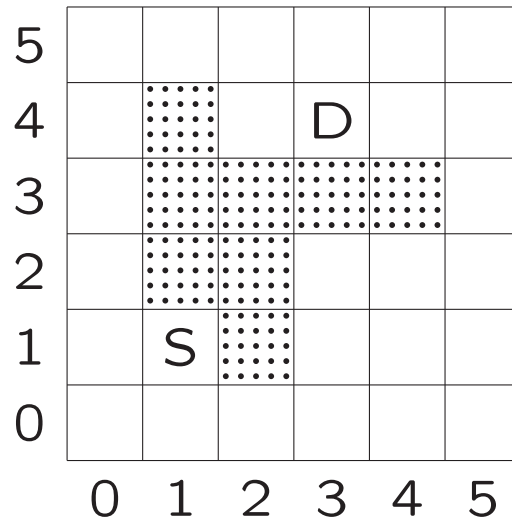
	$e_{6,2}$	
	$b_{5,3}$	$j_{10,7}$
$d_{3,1}$	$f_{4,4}$	$i_{9,8}$
$c_{2,5}$		$h_{8,9}$
$a_{1,6}$		$g_{7,10}$



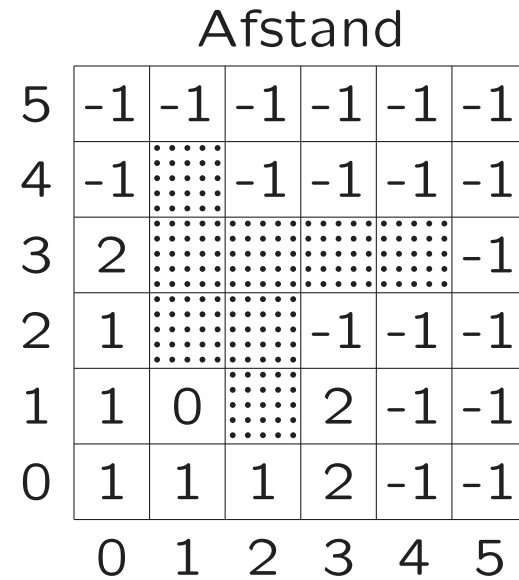
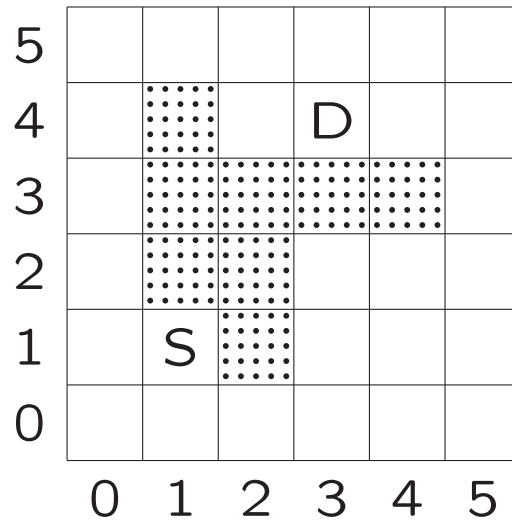




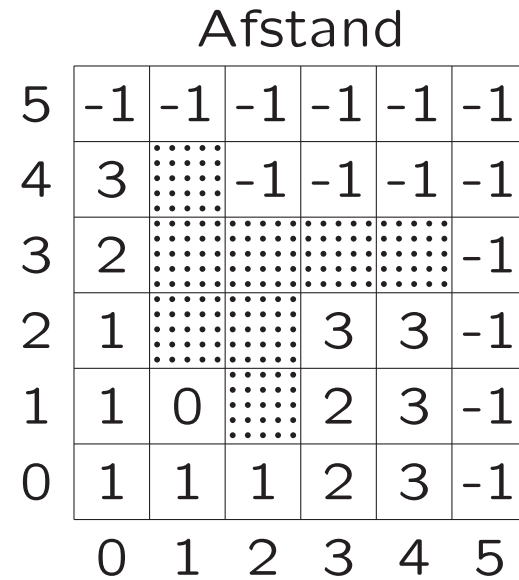
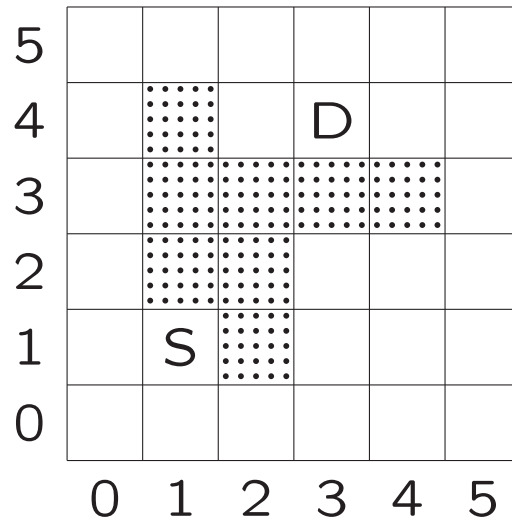
Queue: (1, 1)



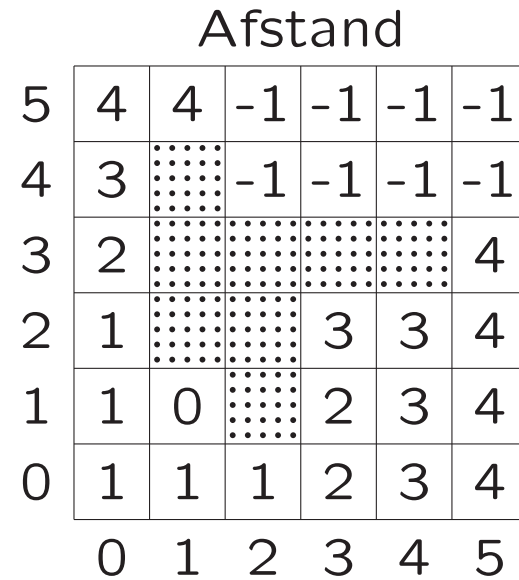
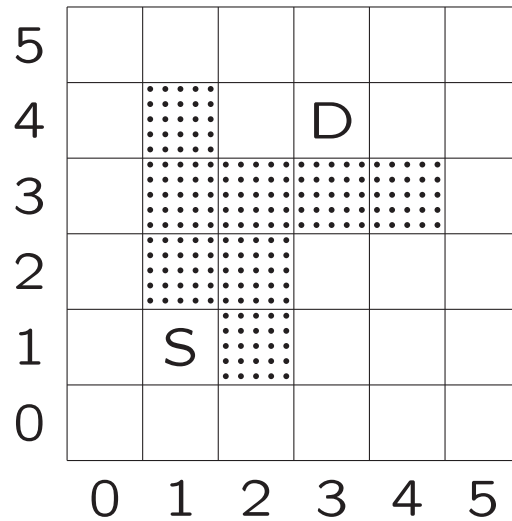
Queue: (0, 2), (0, 1), (0, 0), (1, 0), (2, 0)



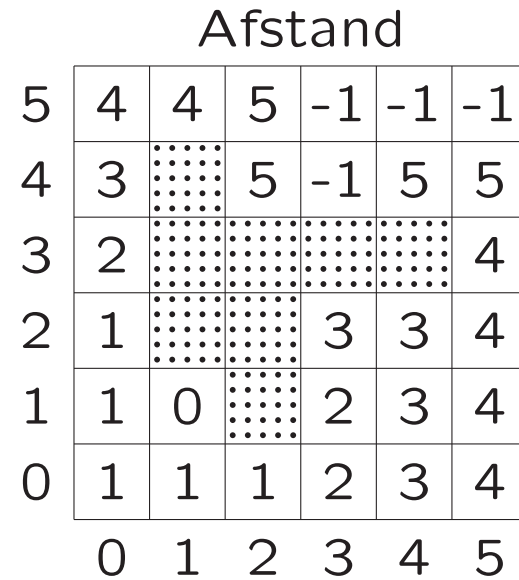
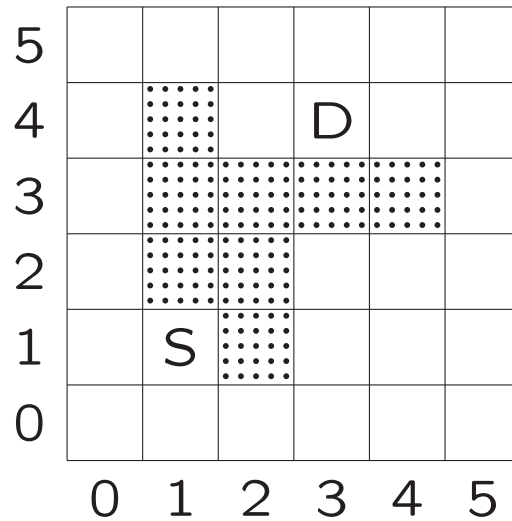
Queue: (0, 3), (3, 0), (3, 1)



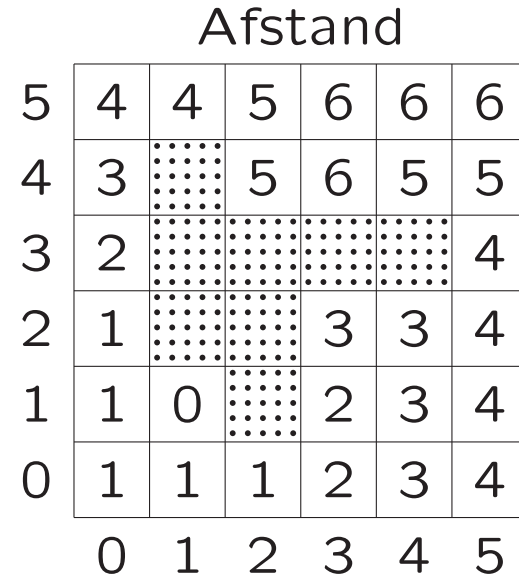
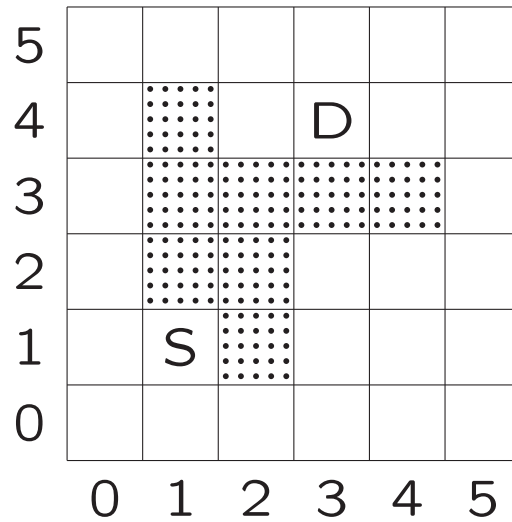
Queue: (0, 4), (4, 0), (4, 1), (4, 2), (3, 2)



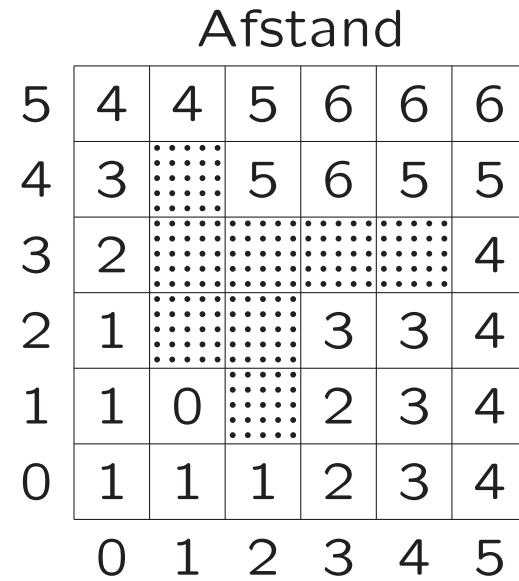
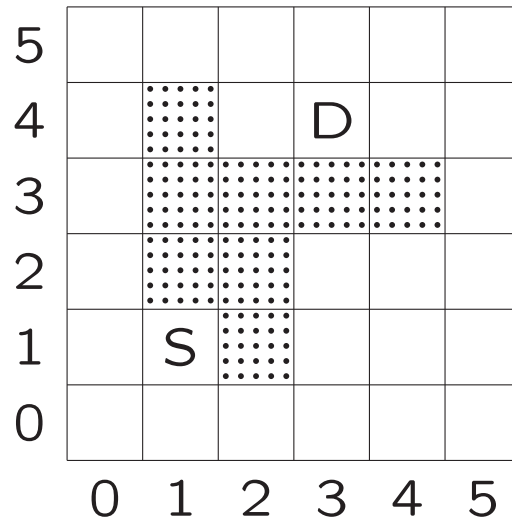
Queue: (0, 5), (1, 5), (5, 0), (5, 1), (5, 2), (5, 3)



Queue: (2, 4), (2, 5), (4, 4), (5, 4)



Queue: (3, 4), (3, 5), (4, 5), (5, 5)



Queue: (3, 4), (3, 5), (4, 5), (5, 5)

Floodfill

Stop zodra D bereikt is

Bepaal route(s) door terug te lopen vanaf D