

v	A	B	C	D	E	F	G	H
	0	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$
A		7	6	9	$\infty$	$\infty$	$\infty$	$\infty$
C		7		9	$\infty$	$\infty$	7	$\infty$
B				9	12	17	7	$\infty$
G				9	12	10		23
D					12	10		23
F					12			18
E								18
H								

Shortest path from A to H	A	C	G	F	H
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Note:	
	The closet vertex to A, next in line to add to the tree
	the v in edgeTo()
x	The point at which the shortest path was defined
x	The point at which a shorter path was found