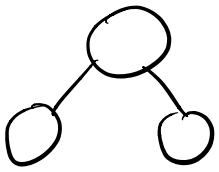
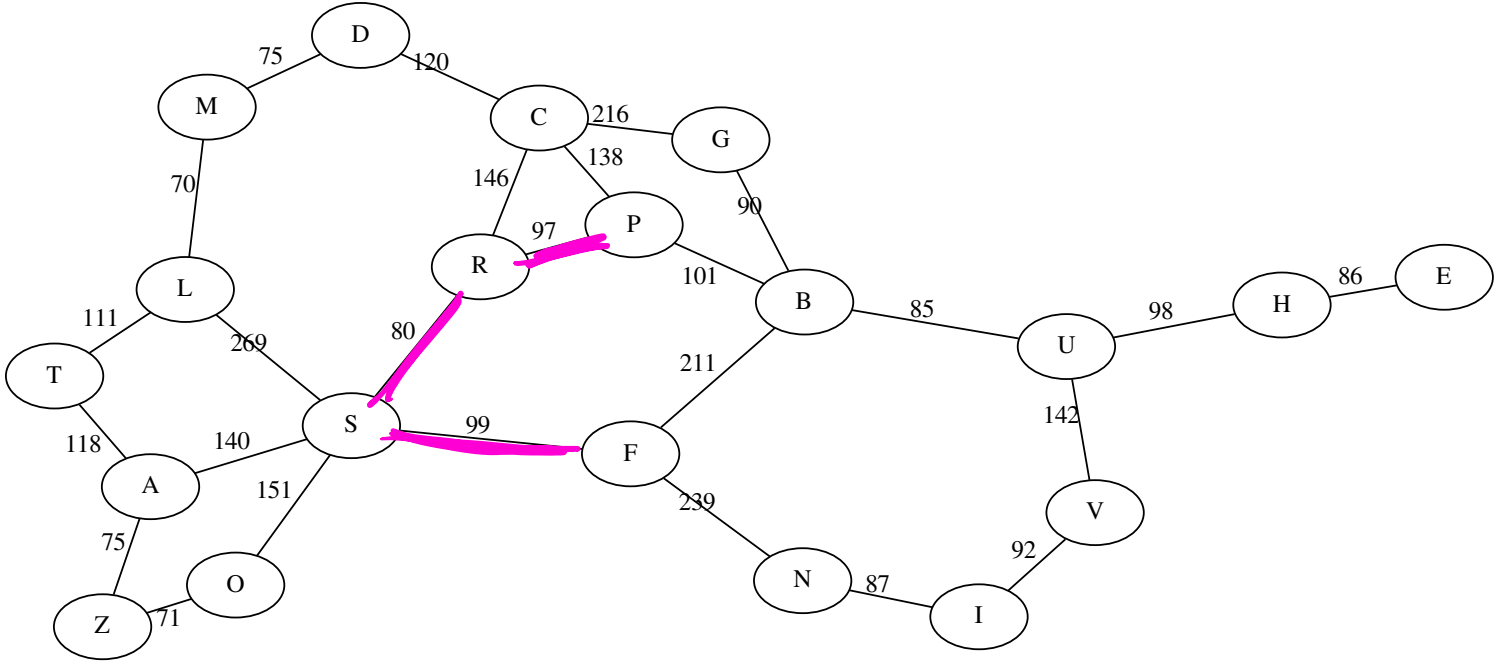
Dijkstra's algorithm

single-source shortest path

Minimum Spanning Tree

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146
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97
101
86
111
269
80
85
98
211
142
118
140
99
151
239
75
92
87
71

Sort by weight
for each edge in decreasing order
    delete if still connected

Reverse-delete

Prim's
pick a node
repeat: add the cheapest
    edge that expands the component

Kruskal's
sort edges
in increasing order:
    add edge unless it's redundant

expand from 1 vertex

insert in increasing order

delete in decreasing order

Prim's	Kruskal's	Rev-del
$n \cdot$	$m \log m$	$m \log m +$
	$m \cdot$ (lookup cost)	$m \cdot m$
		$O(m^2)$

$|V| = n \quad |E| = m$