Your kingdom is composed of 8 walled cities, which are connected by roads, tunnels, and other various pathways. There may be redundant connections between the cities, and there are even some odd paths that simply go from a city back to itself.

An earthquake has occurred, and all roads, tunnels and paths have been destroyed. Each has a rebuilding cost which has been reported to you in the manifest below. You want to rebuild the minimum number of paths/roads/tunnels to connect all of the cities, and you want to do that with minimum cost. What is that minimum cost?

You should use Kruskal's algorithm here. Trust me.

Pathway	/				Rebuilding	Cost	Pathway	/				Rebuilding Cost
Path	from	Daro	to	Gwan	2		Path	from	Forsal	to	Gwan	35
Tunnel	from	Enid	to	Caral	2		Road	from	Forsal	to	Angkor	36
Path	from	Angkor	to	Enid	5		Path	from	Forsal	to	Angkor	39
Path	from	Enid	to	Caral	6		Tunnel	from	Gwan	to	Babylon	43
Path	from	Caral	to	Enid	7		Tunnel	from	Enid	to	Caral	44
	from			Enid	8		Tunnel	from	Gwan	to	Babylon	44
		Babylon			9		Tunnel	from	Angkor	to	Angkor	48
		Babylon			9				Daro		Angkor	49
		Forsal	to	Hatra	11		Tunnel	from	Babylon	to	Hatra	51
Road	from	Caral	to	Daro	13		Tunnel	from	Caral	to	Gwan	53
		Enid			14		Road	from	Angkor	to	Angkor	54
Road	from	Enid	to	Angkor	14		Road	from	Hatra	to	Gwan	56
	from		to	Gwan	15				Enid		Caral	57
		Forsal	to	Daro	17				Forsal			61
Path	from	Hatra	to	Daro	17		Road	from	Hatra		Angkor	61
, , , , , , , , , , , , , , , , , , , ,	from			Gwan	18				Enid		Forsal	62
Tunnel	from	Hatra	to	Babylon	20		Road	from	Babylon	to	Caral	66
Path	from	Enid	to	Hatra	21				Forsal			66
Path	from	Daro	to	Enid	24		Tunnel	from	Forsal	to	Babylon	68
Path	from	Gwan	to	Gwan	26		Path	from	Hatra	to	Hatra	68
Tunnel	from	Forsal	to	Hatra	27		Path	from	Daro	to	Gwan	73
Road	from	Angkor	to	Daro	29		Road	from	Enid	to	Babylon	73
Road	from	Caral	to	Caral	29		Tunnel	from	Forsal	to	Caral	76
Road	from	Forsal	to	Enid	30		Tunnel	from	Babylon	to	Angkor	77
Tunnel	from	Gwan	to	Daro	34		Path	from	Babylon	to	Daro	79
Road	from	Angkor	to	Babylon	35				Hatra		Angkor	79
		Angkor		Caral	35				Angkor		Caral	82

## Answer to Clicker Question on Kruskal's Algorithm 52. I explain it, and show how you should answer a question like this on an exam, in <a href="https://youtu.be/TCqULf81594">https://youtu.be/TCqULf81594</a>.