

Given,

<u>State</u>	<u>$h(n)$</u>	<u>state</u>	<u>$h(n)$</u>
Arad	36	Mehadia	241
Bucharest	0	Neamt	239
Craiova	160	Oradea	380
Drobeta	242	pitesti	100
Eforie	161	Rimnicu Vileea	193
Giurgiu	77	Sibiu	253
Hirsova	151	Timisoara	329
Iasi	226	Urziceni	80
Lugoj	249	Vaslui	199
		Zerind	379

Steps to go Bucharest from Arad

Step 1:

(Arad) $0 + 366 = 366$

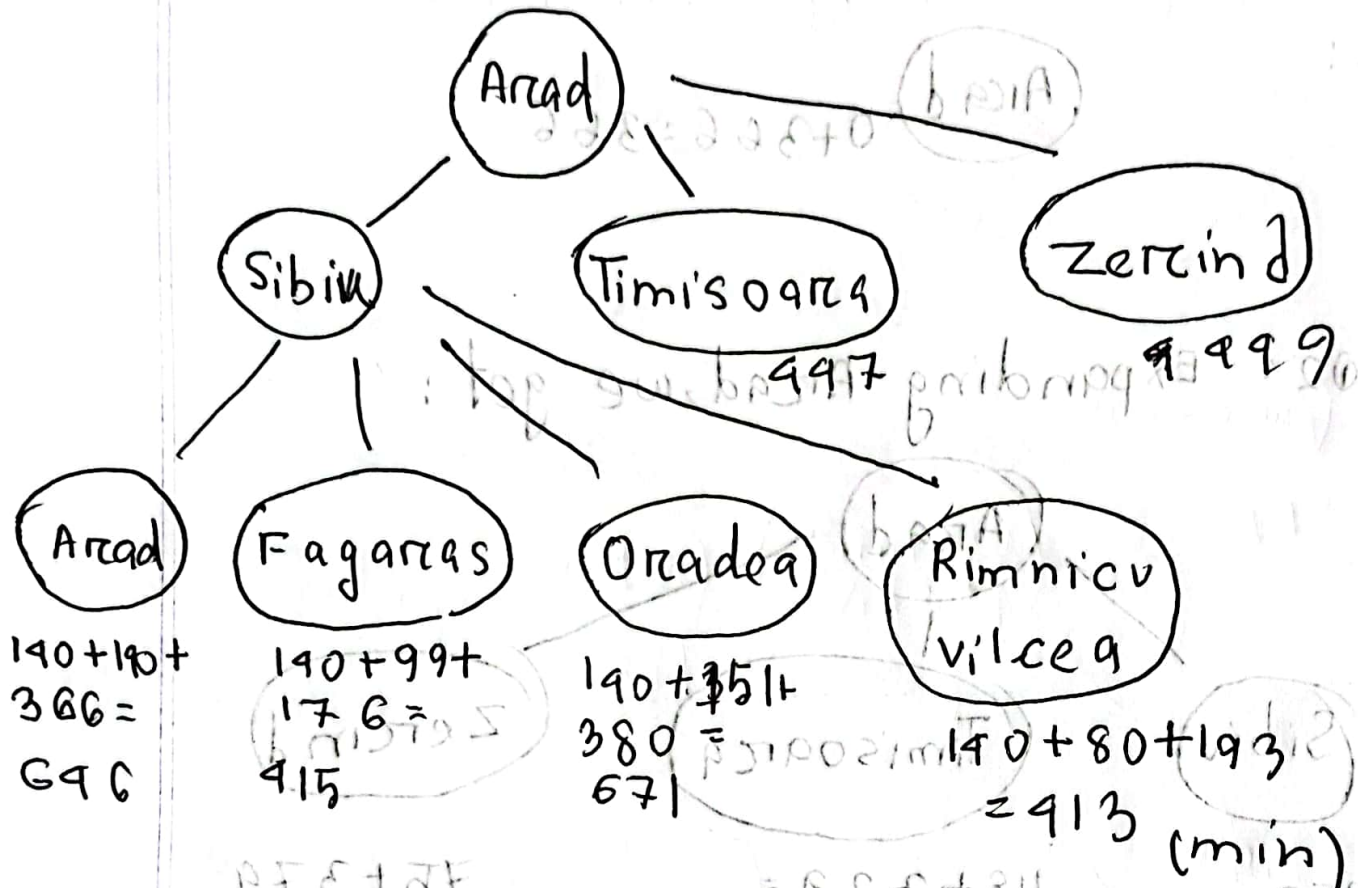
Step 02: Expanding Arad, we get:

(Sibiu) $140 + 253 = 393$
(min)

(Timisoara) $118 + 329 = 447$

(Zerind) $75 + 374 = 449$

Step 3: Expanding Sibiu, we get,

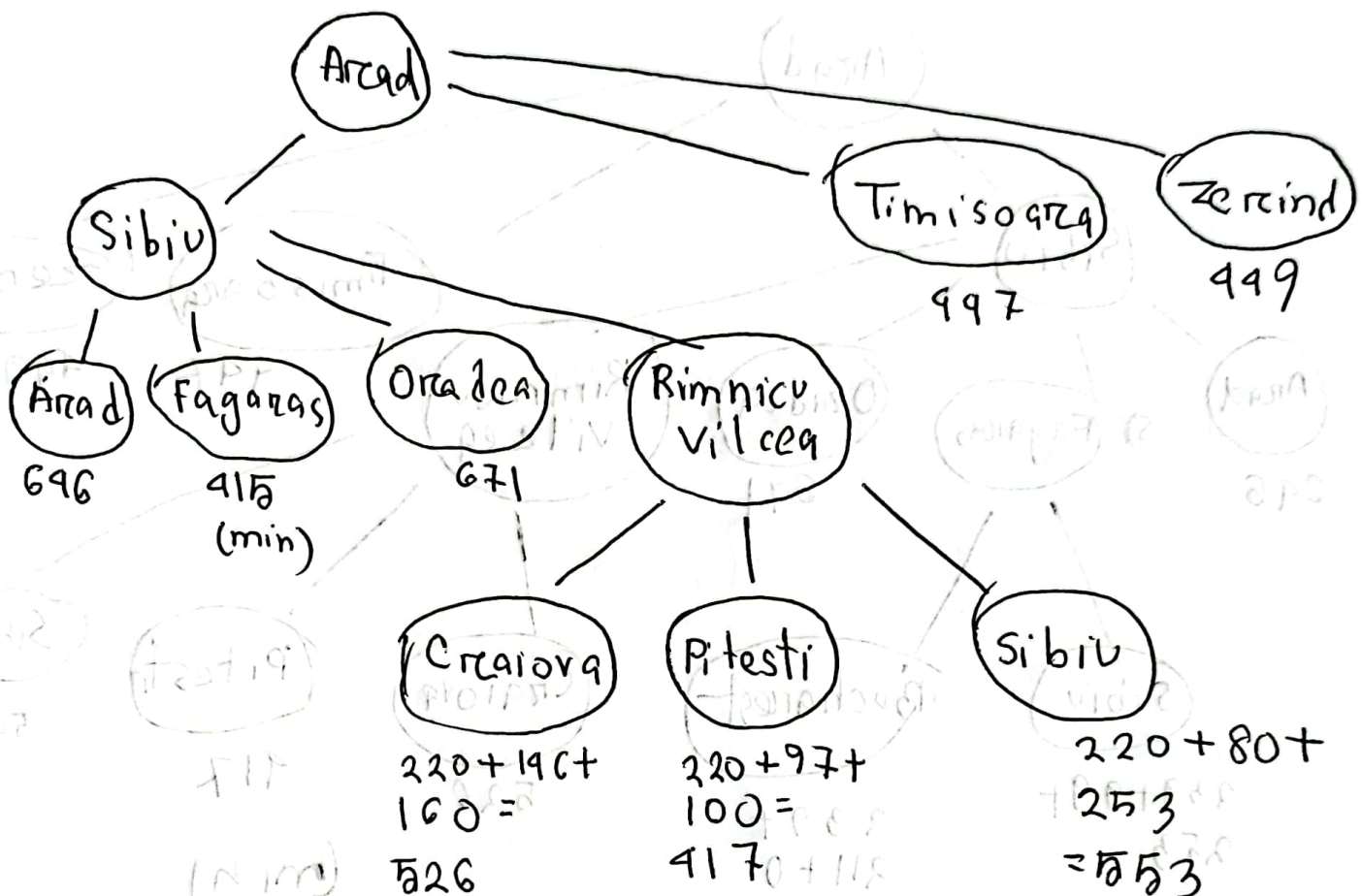


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Name: Jisan Ahmed
Reg. No: 2019831090

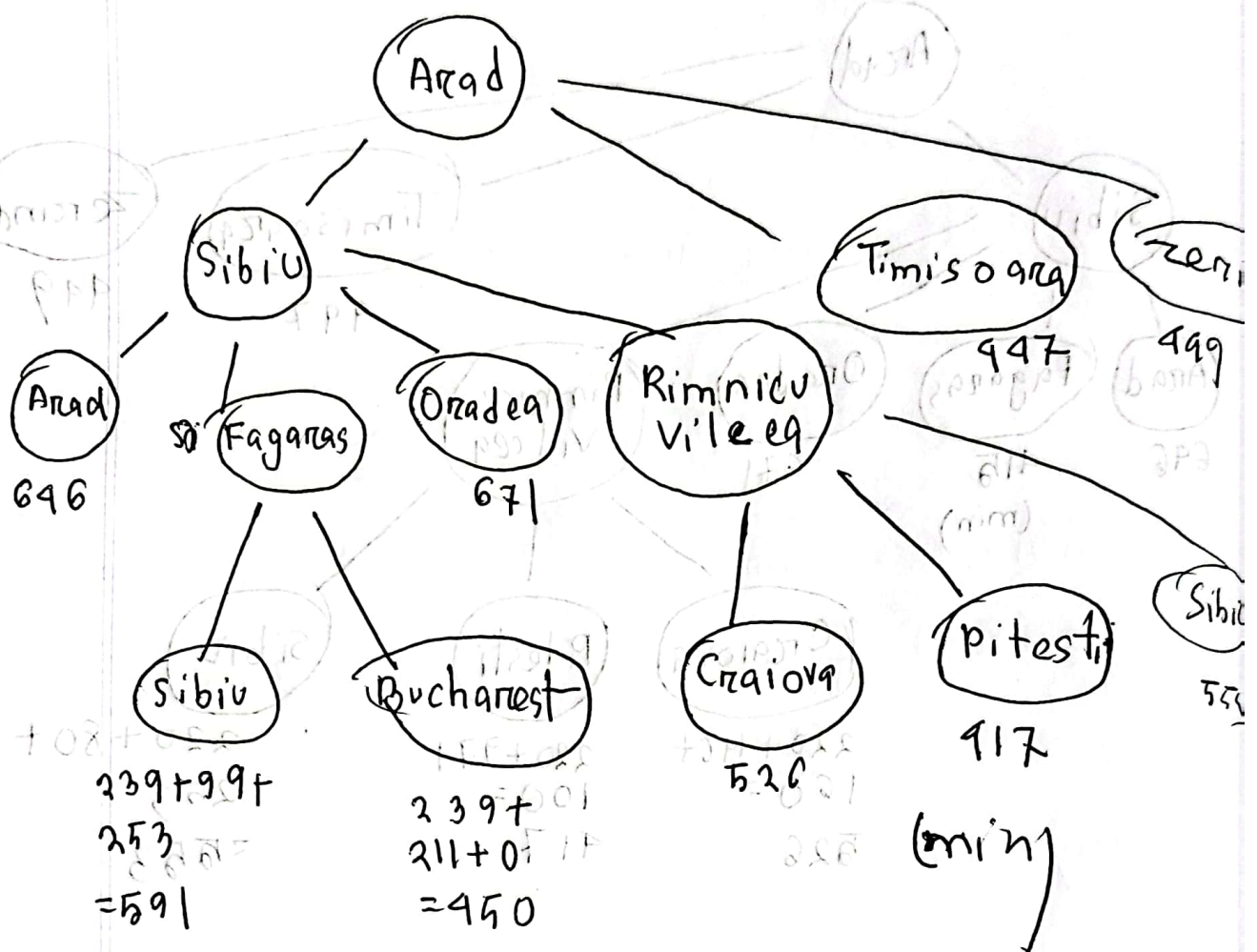
Step 4:

Expanding Rimnicu Vilcea, we get



Name: Jisra Ahmed
Reg. No: 2019831040

Step 5: Expanding Fagaras, we get:



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Step 06: Expanding Pitesti, we get:

