UPGMA & WPGMA Unit Tests

Hint: Many test values are taken from project Algorithms for Bioninformatics of Alexander Mattheis or the lectures.

Test 1

	Inpu	ıt
Γ		Г

	а	b	С	d	е
а	0	6	10	10	10
b		0	10	10	10
С			0	2	6
d				0	6
е					0

Output

(((d:1,c:1):2,e:3):2,(b:3,a:3):2);

Test 2 (only for UPGMA)

Input

	а	b	С
а	0	2	3
b		0	3
С			0

Output

((b:1,a:1):0.5,c:1.5);

Test 3 (only for UPGMA)

Input

	а	b	С
а	0	3	6
b		0	6
С			0