Build the WPGMA tree for the following matrix of distances between sequences.

	A	B	C	D	E	F	G
A	-	0.2	0.8	0.2	0.5	0.6	0.1
B		-	0.6	0.25	0.45	0.5	0.05
C			-	0.75	0.65	0.4	0.55
D				-	0.4	0.7	0.3
E					-	0.4	0.5
F						-	0.55
G							-

Step1:

	A	B+G	C	D	E	F
A	–	0.15	0.8	0.2	0.5	0.6
B+G		–	0.575	0.275	0.475	0.525
C			–	0.75	0.65	0.4
D				–	0.4	0.7
E					–	0.4
F						–

Step2:

	A+(B+G)	C	D	E	F
A+(B+G)	–	0.6875	0.2375	0.4875	0.5625
C		–	0.75	0.65	0.4
D			–	0.4	0.7
E				–	0.4
F					–

Step3:

	(A+(B+G))+D	C	E	F
(A+(B+G))+D	–	0.71875	0.44375	0.63125
C		–	0.65	0.4
E			–	0.4
F				–

Step 4:

	(A+(B+G))+D	C+F	E
(A+(B+G))+D	–	0.675	0.44375
C+F		–	0.525
E			–

Step 5:

	((A+(B+G))+D)+E	C+F
((A+(B+G))+D)+E	–	0.6
C+F		–

WPGMA tree: