Suhas Dhar
Assignment -
700721985

	P_1	P_2	P_3	P_4	P_5	P_6
P_1	0.0	0.2357	0.2218	0.3688	0.3421	0.2347
P_2	0.235	0.0	0.1483	0.2043	0.1388	0.2540
P_3	0.2218	0.1483	0.0	0.1513	0.2843	0.1100
P_4	0.3688	0.2042	.1513	0.0	0.2932	0.2216
P_5	0.3421	0.1388	0.2843	0.2932	0.0	0.3921
P_6	0.2347	0.2540	0.1100	0.2216	0.3921	0.0

Pair $[P_3, P_6]$ → 0.11

	P_1	P_2	P_{36}	P_4	P_5	
P_1	0					
P_2	0.2357	0.0				
P_3P_6	0.2282	0.2011	0.0			
P_4	0.3688	0.2042	0.1864	0.0		
P_5	0.3421	0.1388	0.3382	0.2932	00	

$[P_3 P_6] P_1$ → Avg (0.2218, 0.2347) → 0.2282
$[P_3 P_6] P_2$ → Avg (0.1483, 0.2540) → 0.2011
$[P_3 P_6] P_4$ → Avg (0.1513, 0.2216) → 0.1864
$P_5, [P_3, P_6]$ → Avg (0.2843, 0.3921) → 0.3352

$[P_2, P_5]$ → 0.1388

	P_1	$P_5 P_2$	$P_3 P_6$	P_4
P_1	0			
$P_2 P_5$	0.2889	0		
$P_3 P_6$	0.2252	0.2946	0	
P_4	0.3688	0.2487	0.1864	0

$[P_2 P_5] P_1 \rightarrow$ Avg $= 0.2357, 0.3421 = 0.2889$

$[P_3 P_6] [P_2 P_5] \rightarrow$ Avg $= 0.2011, 0.3382 = 0.2946$

$P_4 [P_5 P_2] \rightarrow$ Avg $= 0.2042, 0.2932 = 0.2486$

$[P_4 P_3 P_6] \rightarrow 0.1864$

	P_1	$P_5 P_2$	$P_3 P_4 P_6$
P_1	0		
$P_2 P_5$	0.2889	0	
$P_3 P_4 P_6$	0.2958	0.2591	0

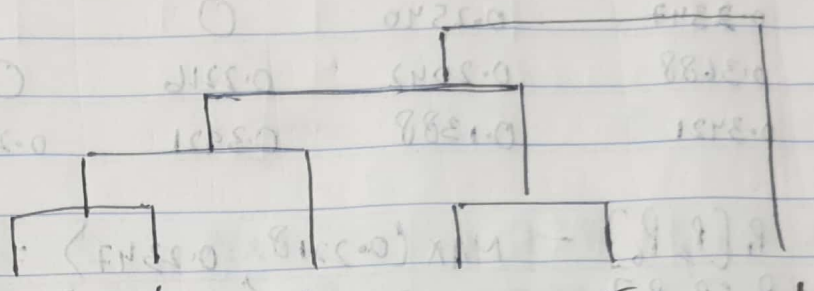
$P_1 [P_3 P_4 P_6] \rightarrow$ Avg $= (0.2252, 0.3688) = 0.2955$

$[P_3 P_4 P_6] [P_5 P_6] \rightarrow$ Avg $1 = (0.2946, 0.2487) = 0.2591$

$[P_5 P_2] [P_3 P_4 P_6] \rightarrow 0.2591$

	P_1	$P_2 P_3 P_4 P_5 P_6$
P_1	0	
$P_2 P_3 P_4 P_5 P_6$	0.2923	0

$P_1 [P_2\ P_3\ P_4\ P_5\ P_6] \rightarrow Avg(0.2889, 0.2958) \rightarrow 0.2923$



MAX - Complete

	P_1	P_2	P_3	P_4	P_5	P_6
P_1	0					
P_2	0.2357	0				
P_3	0.2218	0.1453	0			
P_4	0.3688	0.2042	0.1513	0		
P_5	0.3421	0.1388	0.2843	0.2932	0	
P_6	0.2347	0.2540	0.1100	0.2216	0.3921	0

Pair $[P_3 P_6] \rightarrow 01100$

	P_1	P_2	P_3P_6	P_4	P_5
P_1	0				
P_2	0.2357	0			
P_3P_6	0.2347	0.2540	0		
P_4	0.3688	0.2042	0.2216	0	
P_5	0.3421	0.1388	0.3921	0.2932	0

$P_1[P_3P_6]$ - MAX (0.2218, 0.2347) = 0.2347

$P_2[P_3P_6]$ - MAX (0.1483, 0.2540) = 0.2540

$P_4[P_3P_6]$ - MAX (0.1513, 0.2216) = 0.2216

$P_5[P_3P_6]$ - MAX (0.2843, 0.3921) = 0.3921

Pair $[P_2P_5]$

	P_1	P_2P_5	P_3P_6	P_4
P_1	0			
P_2P_5	0.3421	0		
P_3P_6	0.2347	0.3921	0	
P_4	0.3688	0.2932	0.2216	0

$P_1[P_2P_5]$ → MAX (0.2357, 0.3421) = 0.3421

$[P_3P_6][P_2P_5]$ → MAX (0.2540, 0.3921) = 0.3921

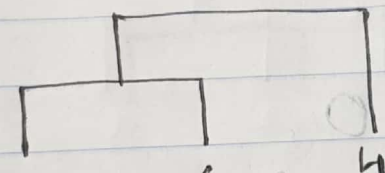
$P_4[P_2P_5]$ → MAX (0.2042, 0.1388) = 0.2932

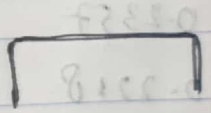
Pair $(P_4[P_3 P_6]) \rightarrow 0.2216$

	P_1	$P_2 P_5$	$P_3 P_6 P_4$
P	0		
$P_2 P_5$	0.3421	0	
$P_3 P_6 P_4$	0.3688	0.3921	0

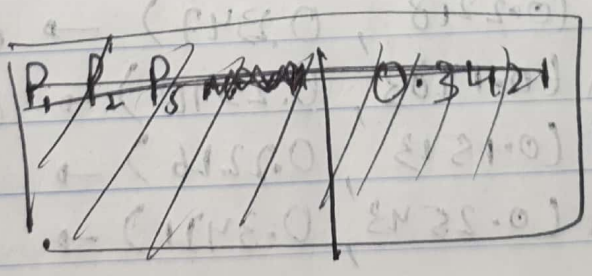
$P_1[P_4 P_3 P_6] \rightarrow$ MAX (0.3688, 0.2347) = 0.3688

$[P_2 P_5][P_4 P_3 P_6] \rightarrow$ MAX (0.2932, 0.3921) = 0.3921



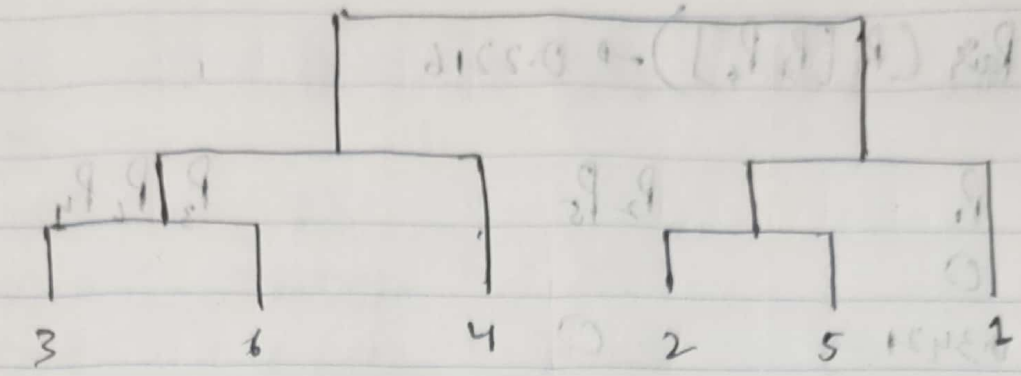


$P_1[P_2 P_5] \rightarrow 0.3421$



	$P_1 P_2 P_5$	$P_3 P_6 P_4$
$P_1 P_2 P_5$	0	
$P_3 P_6 P_4$	0.3921	0

$[P_1 P_2 P_6][P_3 P_6 P_4] \rightarrow$ MAX (0.3688, 0.3421)
= 0.3921



Single link

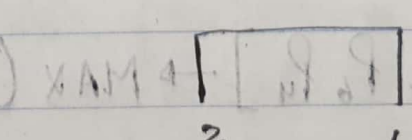
	P_1	P_2	P_3	P_4	P_5
P_1	0				
P_2	0.2357	0			
$P_{3,6}$	0.2218	0.1483	0		
P_4	0.3688	0.2042	0.1513	0	
P_5	0.3421	0.1355	0.2843	0.2932	0

$P_1 [P_3\ P_6]$ — Min (0.2218 , 0.2347) → 0.2218

$P_2 [P_3\ P_6]$ — Min (0.1483 , 0.2540) → 0.1483

$P_4 [P_3\ P_6]$ — Min (0.1513 , 0.2216) → 0.1513

$P_5 [P_3\ P_6]$ — Min (0.2543 , 0.3421) → 0.2843



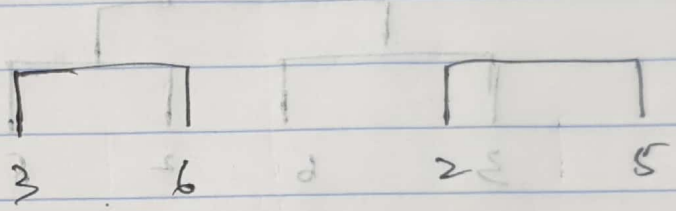
$[P_2\ P_5]$ → 0.1380

	P_1	P_2 P_5	P_3 P_6	P_4
P_1	0			
P_2 P_5	0.2357	0		
P_3 P_6	0.2218	0.1483	0	
P_4	0.3685	0.2042	0.1513	0

$P_1 [P_2 P_5] \rightarrow \min(0.2357, 0.3421) \rightarrow 0.2357$

$P_3 P_6 [P_2 P_5] \rightarrow \min(0.1483, 0.2843) \rightarrow 0.1483$

$P_4 [P_2 P_5] \rightarrow \min(0.2042, 0.2932) \rightarrow 0.2042$

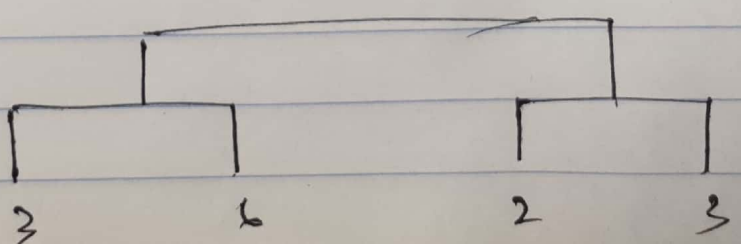


Pair $[P_3 P_6]$ $[P_2 P_5] = 0.1483$

	P_1	P_2 P_5 P_3 P_6	P_4
P_1	0		
P_2 P_5 P_3 P_6	0.2218	0	
P_4	0.3688	0.1513	0

$P_1 [P_2 P_5 P_3 P_6] = \min(0.2357, 0.2218) = 0.2228$

$P_4 [P_2 P_5 P_3 P_6] = \min(0.2042, 0.1513) = 0.1513$



Pair $[P_2\ P_5\ P_3\ P_6]\ P_4 = 0.1513$

	P_1	$P_2 P_5 P_3 P_4 P_4$
P_1	0	
$P_2 P_5 P_3 P_6 P_4$	0.2218	0

$P_1 [P_2 P_5 P_3 P_6 P_4] = \min(0.2218, 0.3688)$

$= 0.2218$