

*** Min Spanning Tree for Graph 10 ***	
{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10: 0-1(34), 0-4(25), 1-8(21), 2-3(18), 2-4(3), 2-5(1), 3-7(9), 6-7(19), 8-9(33), 9-10(18)}	
TREE SUM = 181	
*** Shortest Path Tree for Graph 10 ***	
{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10: 0-1(34), 1-4(47), 1-8(21), 2-3(18), 2-4(3), 2-5(1), 3-7(9), 6-7(19), 8-9(33), 9-10(18)}	
TREE SUM = 203	
*** Path from Vertex 1 to Vertex 7 ***	
{1, 2, 3, 4: 1-4(47), 2-3(18), 2-4(3), 3-7(9)}	
TOTAL LENGTH FROM VERTEX 1 TO VERTEX 7 = 77	
*** Min Spanning Tree for Graph 100 ***	
{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99: 0-2(3), 0-25(2), 0-92(3), 0-99(42), 1-14(2), 1-57(3), 1-58(2), 2-21(1), 2-86(2), 3-23(3), 4-8(1), 4-19(2), 5-40(1), 5-51(2), 5-69(2), 5-90(3), 6-28(2), 7-9(3), 7-26(3), 8-18(2), 8-42(2), 8-93(1), 9-58(4), 10-13(5), 10-83(1), 11-25(1), 11-81(6), 12-55(2), 12-61(3), 13-48(1), 13-65(2), 13-79(2), 15-47(1), 15-82(4), 16-40(1), 16-43(1), 16-64(3), 16-65(1), 16-77(3), 17-23(2), 17-33(3), 17-54(1), 17-95(1), 19-55(2), 20-24(3), 21-85(9), 21-94(3), 22-50(2), 22-69(2), 22-84(2), 22-98(3), 23-37(2), 23-86(2), 24-35(2), 26-56(3), 27-54(1), 28-33(1), 28-53(5), 28-97(1), 29-33(3), 29-74(5), 30-32(1), 30-33(2), 31-43(2), 31-59(1), 32-56(1), 32-60(1), 32-68(4), 34-64(1), 34-76(5), 35-37(1), 36-60(1), 37-45(2),	

38-96(1), 39-56(1), 41-49(3), 44-47(4), 44-64(3), 46-50(2), 46-97(1), 48-73(5), 49-69(4), 49-71(4),  
49-87(1), 50-63(2), 52-66(4), 55-59(3), 55-75(2), 62-65(2), 63-91(2), 65-66(1), 66-88(2), 67-77(3),  
70-71(3), 70-89(1), 70-96(5), 72-95(1), 78-83(4), 80-82(6)}

TREE SUM = 278

\*\*\* Shortest Path Tree for Graph 100 \*\*\*

{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,  
27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51,  
52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76,  
77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99: 0-2(3),  
0-25(2), 0-92(3), 0-99(42), 1-14(2), 1-58(2), 2-15(5), 2-21(1), 2-35(2), 2-86(2), 3-54(3), 4-8(1),  
4-19(2), 5-40(1), 5-51(2), 5-69(2), 5-90(3), 6-28(2), 7-9(3), 7-59(4), 8-18(2), 8-42(2), 8-93(1),  
10-13(5), 10-83(1), 11-25(1), 11-81(6), 12-55(2), 12-61(3), 13-38(5), 13-48(1), 13-65(2), 13-79(2),  
16-40(1), 16-43(1), 16-64(3), 16-65(1), 17-23(2), 17-54(1), 17-95(1), 19-55(2), 20-27(4), 21-37(2),  
21-85(9), 21-94(3), 22-50(2), 22-69(2), 22-84(2), 22-98(3), 23-37(2), 24-35(2), 26-56(3), 27-54(1),  
28-33(1), 28-97(1), 29-33(3), 29-74(5), 30-32(1), 30-33(2), 31-36(3), 31-59(1), 32-56(1), 32-60(1),  
32-68(4), 34-64(1), 34-76(5), 36-57(5), 36-58(5), 36-60(1), 37-45(2), 38-96(1), 39-45(3), 39-56(1),  
41-48(6), 43-53(5), 43-67(3), 44-64(3), 46-50(2), 46-82(6), 46-97(1), 47-60(5), 48-73(5), 49-69(4),  
49-87(1), 50-63(2), 52-66(4), 55-59(3), 55-75(2), 60-77(3), 62-65(2), 63-91(2), 65-66(1), 66-88(2),  
70-71(3), 70-89(1), 70-96(5), 72-95(1), 78-83(4), 80-82(6)}

TREE SUM = 296

\*\*\* Path from Vertex 2 to Vertex 87 \*\*\*

{2, 21, 22, 28, 30, 32, 33, 37, 39, 45, 46, 49, 50, 56, 69, 97: 2-21(1), 21-37(2), 22-50(2),  
22-69(2), 28-33(1), 28-97(1), 30-32(1), 30-33(2), 32-56(1), 37-45(2), 39-45(3), 39-56(1), 46-50(2),  
46-97(1), 49-69(4), 49-87(1)}

TOTAL LENGTH FROM VERTEX 2 TO VERTEX 87 = 27

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(program exited with code: 0)