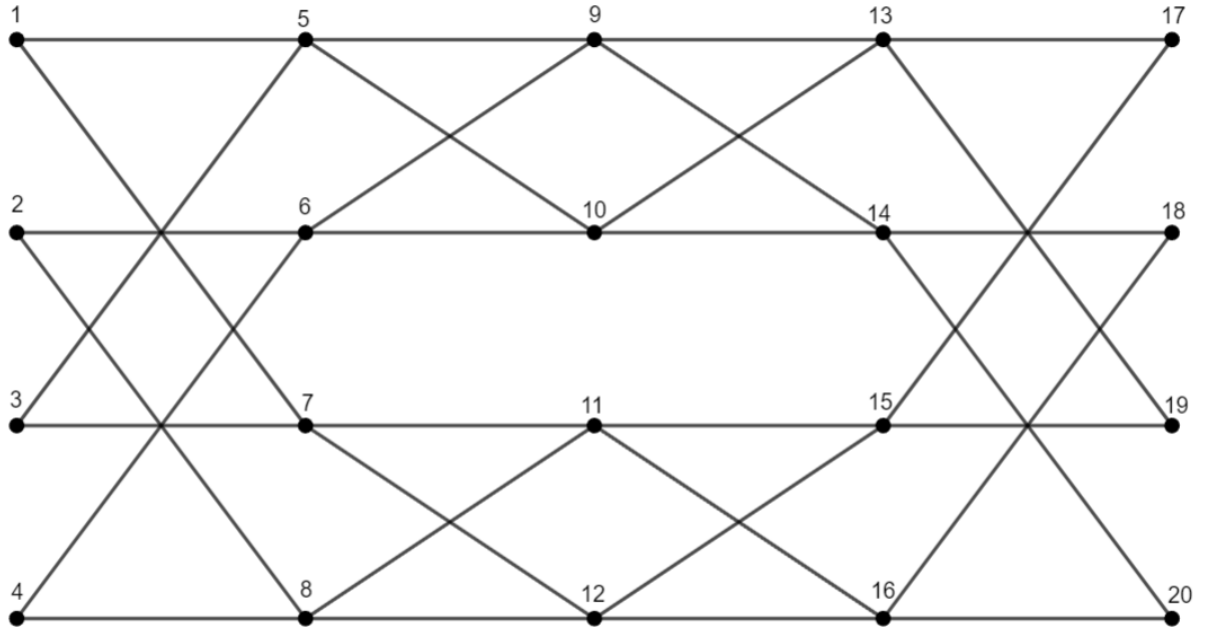# Benes Network of dimension two $B(2)$



Metric dimension - 6
BIGS Index – 64

Extracted Metric Bases using BIGS algorithm

1. {1, 2, 9, 11, 17, 18}
2. {1, 2, 9, 11, 17, 20}
3. {1, 2, 9, 11, 18, 19}
4. {1, 2, 9, 11, 19, 20}
5. {1, 2, 9, 12, 17, 18}
6. {1, 2, 9, 12, 17, 20}
7. {1, 2, 9, 12, 18, 19}
8. {1, 2, 9, 12, 19, 20}
9. {1, 2, 10, 11, 17, 18}
10. {1, 2, 10, 11, 17, 20}
11. {1, 2, 10, 11, 18, 19}
12. {1, 2, 10, 11, 19, 20}
13. {1, 2, 10, 12, 17, 18}
14. {1, 2, 10, 12, 17, 20}
15. {1, 2, 10, 12, 18, 19}
16. {1, 2, 10, 12, 19, 20}
17. {1, 4, 9, 11, 17, 18}
18. {1, 4, 9, 11, 17, 20}
19. {1, 4, 9, 11, 18, 19}
20. {1, 4, 9, 11, 19, 20}
21. {1, 4, 9, 12, 17, 18}

22. {1, 4, 9, 12, 17, 20}
23. {1, 4, 9, 12, 18, 19}
24. {1, 4, 9, 12, 19, 20}
25. {1, 4, 10, 11, 17, 18}
26. {1, 4, 10, 11, 17, 20}
27. {1, 4, 10, 11, 18, 19}
28. {1, 4, 10, 11, 19, 20}
29. {1, 4, 10, 12, 17, 18}
30. {1, 4, 10, 12, 17, 20}
31. {1, 4, 10, 12, 18, 19}
32. {1, 4, 10, 12, 19, 20}
33. {2, 3, 9, 11, 17, 18}
34. {2, 3, 9, 11, 17, 20}
35. {2, 3, 9, 11, 18, 19}
36. {2, 3, 9, 11, 19, 20}
37. {2, 3, 9, 12, 17, 18}
38. {2, 3, 9, 12, 17, 20}
39. {2, 3, 9, 12, 18, 19}
40. {2, 3, 9, 12, 19, 20}
41. {2, 3, 10, 11, 17, 18}
42. {2, 3, 10, 11, 17, 20}
43. {2, 3, 10, 11, 18, 19}
44. {2, 3, 10, 11, 19, 20}
45. {2, 3, 10, 12, 17, 18}
46. {2, 3, 10, 12, 17, 20}
47. {2, 3, 10, 12, 18, 19}
48. {2, 3, 10, 12, 19, 20}
49. {3, 4, 9, 11, 17, 18}
50. {3, 4, 9, 11, 17, 20}
51. {3, 4, 9, 11, 18, 19}
52. {3, 4, 9, 11, 19, 20}
53. {3, 4, 9, 12, 17, 18}
54. {3, 4, 9, 12, 17, 20}
55. {3, 4, 9, 12, 18, 19}
56. {3, 4, 9, 12, 19, 20}
57. {3, 4, 10, 11, 17, 18}
58. {3, 4, 10, 11, 17, 20}
59. {3, 4, 10, 11, 18, 19}
60. {3, 4, 10, 11, 19, 20}
61. {3, 4, 10, 12, 17, 18}
62. {3, 4, 10, 12, 17, 20}
63. {3, 4, 10, 12, 18, 19}
64. {3, 4, 10, 12, 19, 20}