Source: 4 destination: 2 cost: 12

Source: 1 destination: 4 cost: 48

Source: 4 destination: 1 cost: 98

Source: 3 destination: 2 cost: 22

Source: 3 destination: 4 cost: 2

Source: 1 destination: 0 cost: 34

Source: 1 destination: 2 cost: 77

Source: 2 destination: 3 cost: 97

Source: 2 destination: 1 cost: 21

Source: 0 destination: 3 cost: 80

Initial:

Costs:

0 Inf Inf 80 Inf

34 0 77 Inf 48

Inf 21 0 97 Inf

Inf Inf 22 0 2

Inf 98 12 Inf 0

Previous:

-1 -1 -1 0 -1

1 -1 1 -1 1

-1 2 -1 2 -1

-1 -1 3 -1 3

-1 4 4 -1 -1

Interminiate node - 0

Costs:

0 Inf Inf 80 Inf

34 0 77 Inf 48

Inf 21 0 97 Inf

Inf Inf 22 0 2

Inf 98 12 Inf 0

Previous:

-1 -1 -1 0 -1

1 -1 1 -1 1

-1 2 -1 2 -1

-1 -1 3 -1 3

-1 4 4 -1 -1

Interminiate node - 1

Costs:

0 Inf Inf 80 Inf

34 0 77 114 48

Inf 21 0 97 Inf

Inf Inf 22 0 2

Inf 98 12 Inf 0

Previous:

-1 -1 -1 0 -1

1 -1 1 0 1

-1 2 -1 2 -1

-1 -1 3 -1 3

-1 4 4 -1 -1

Interminiate node - 2

Costs:

0 Inf Inf 80 Inf

34 0 77 114 48

55 21 0 97 69

Inf Inf 22 0 2

132 98 12 212 0

Previous:

-1 -1 -1 0 -1

1 -1 1 0 1

1 2 -1 2 1

-1 -1 3 -1 3

1 4 4 0 -1

Interminiate node - 3

Costs:

0 Inf Inf 80 Inf

34 0 77 114 48

55 21 0 97 69

77 43 22 0 2

67 33 12 109 0

Previous:

-1 -1 -1 0 -1

1 -1 1 0 1

1 2 -1 2 1

1 2 3 -1 3

1 2 4 2 -1

Interminiate node - 4

Costs:

0 123 102 80 82

34 0 77 114 48

55 21 0 97 69

77 43 22 0 2

67 33 12 109 0

Previous:

-1 2 3 0 3

1 -1 1 0 1

1 2 -1 2 1

1 2 3 -1 3

1 2 4 2 -1

Lowest cost from 1 to 3 and path:

114

1 0 3