**MLRC\_List (cosine2.dot)**

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------------- FILES -------------

1: hal.dot

2: fir1.dot

3: cosine1.dot

4: cosine2.dot

5: Any other .dot file

========================================

Enter the file option: 4

========================================

------------- ALGORITHMS -------------

1: MLRC\_ILP

2: MRLC\_ILP

3: MLRC\_List

4: MRLC\_List

========================================

Enter Option: 3

========================================

Nodes associated with Operations = [['42', '60', '62', '64', '66', '68', '26', '48', '46', '44', '28', '40', '38', '70', '36', '50'], ['54', '53', '24', '21', '29', '71', '15', '58', '18', '31', '34', '74', '57'], ['56', '3', '6', '9', '52', '73', '72', '12', '30', '51', '33', '55', '32'], ['80', '81', '82', '77', '76', '75', '79', '78']]

Unique Resource Types = ['mul', 'add', 'sub', 'exp']

================================================================================

Enter the number of instances of Multiplier: 14

Enter the number of instances of Adder: 30

Enter the number of instances of Subtracter: 3

Enter the number of instances of Exponent: 4

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '31', '51', '36', '74', '32', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '31', '51', '36', '74', '32', '50']

Nodes with no valid Scheduled Predecessor = ['51', '38', '54', '42', '36', '53', '52', '77', '76', '75', '40', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['48', '73', '72', '71', '31', '74', '32', '50']

Nodes with Predecessor Still Busy = ['48', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['31', '32']

U = [[], ['31'], ['32'], []]

B = [['60', '62', '68', '70'], ['34'], [], []]

S = [[], ['31'], ['32'], []]

M = [-1, [0], [9], -1]

M\* = [[], [0], [9], []]

U\* = [[], ['31'], ['32'], []]

Scheduled Nodes = ['31', '32']

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 62-------------------------

-------------------------Start of t = 63-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '68', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 63-------------------------

-------------------------Start of t = 64-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '68', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 64-------------------------

-------------------------Start of t = 65-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '68', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 65-------------------------

-------------------------Start of t = 66-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '68', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 66-------------------------

-------------------------Start of t = 67-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '68', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 67-------------------------

-------------------------Start of t = 68-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '68', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 68-------------------------

-------------------------Start of t = 69-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '68', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 69-------------------------

-------------------------Start of t = 70-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '68', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 70-------------------------

-------------------------Start of t = 71-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 71-------------------------

-------------------------Start of t = 72-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '48', '42', '36', '40', '50', '74', '73', '72', '71']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['60', '62', '70'], ['31', '34'], ['32'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

-------------------------End of t = 72-------------------------

-------------------------Start of t = 73-------------------------

Un-scheduled Nodes = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes before deletion = ['54', '42', '83', '80', '81', '53', '48', '40', '82', '52', '77', '76', '75', '38', '73', '72', '71', '79', '78', '51', '36', '74', '50']

Nodes with no valid Scheduled Predecessor = ['54', '51', '53', '52', '77', '76', '75', '82', '83', '80', '81', '79', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['42', '48', '40', '38', '73', '72', '71', '36', '74', '50']

Nodes with Predecessor Still Busy = ['38', '73', '36', '74']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['42', '48', '40', '72', '71', '50']

U = [['42', '48', '40', '50'], ['71'], ['72'], []]

B = [['70'], ['31'], [], []]

S = [['42', '50', '48', '40'], ['71'], ['72'], []]

M = [[9, 18, 18, 9], [39], [48], -1]

M\* = [[9, 9, 18, 18], [39], [48], []]

U\* = [['42', '50', '48', '40'], ['71'], ['72'], []]

Scheduled Nodes = ['42', '50', '48', '40', '71', '72']

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 73-------------------------

-------------------------Start of t = 74-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['38', '36', '53', '52', '74', '73', '80', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '70', '50'], ['71', '31'], ['72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 74-------------------------

-------------------------Start of t = 75-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['38', '36', '53', '52', '74', '73', '80', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '70', '50'], ['71', '31'], ['72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 75-------------------------

-------------------------Start of t = 76-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['38', '36', '53', '52', '74', '73', '80', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '70', '50'], ['71', '31'], ['72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 76-------------------------

-------------------------Start of t = 77-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['38', '36', '53', '52', '74', '73', '80', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '70', '50'], ['71', '31'], ['72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 77-------------------------

-------------------------Start of t = 78-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['38', '36', '53', '52', '74', '73', '80', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '70', '50'], ['71', '31'], ['72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 78-------------------------

-------------------------Start of t = 79-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['38', '36', '53', '52', '74', '73', '80', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '70', '50'], ['71', '31'], ['72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 79-------------------------

-------------------------Start of t = 80-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['38', '36', '53', '52', '74', '73', '80', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '70', '50'], ['71', '31'], ['72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 80-------------------------

-------------------------Start of t = 81-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['38', '36', '53', '52', '74', '73', '80', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '70', '50'], ['71', '31'], ['72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

-------------------------End of t = 81-------------------------

-------------------------Start of t = 82-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '38', '73', '79', '78', '51', '36', '74']

Nodes with no valid Scheduled Predecessor = ['54', '51', '77', '76', '75', '82', '83', '81', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['80', '53', '52', '38', '73', '79', '36', '74']

Nodes with Predecessor Still Busy = ['80', '79', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['38', '73', '36', '74']

U = [['38', '36'], ['74'], ['73'], []]

B = [['42', '48', '40', '50'], ['71'], ['72'], []]

S = [['38', '36'], ['74'], ['73'], []]

M = [[0, 9], [30], [39], -1]

M\* = [[0, 9], [30], [39], []]

U\* = [['38', '36'], ['74'], ['73'], []]

Scheduled Nodes = ['38', '36', '74', '73']

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 82-------------------------

-------------------------Start of t = 83-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '80', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '80', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73', '72'], []]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 83-------------------------

-------------------------Start of t = 84-------------------------

Un-scheduled Nodes = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '80', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '80', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['80']

U = [[], [], [], ['80']]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], []]

S = [[], [], [], ['80']]

M = [-1, -1, -1, [48]]

M\* = [[], [], [], [48]]

U\* = [[], [], [], ['80']]

Scheduled Nodes = ['80']

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 84-------------------------

-------------------------Start of t = 85-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], ['80']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 85-------------------------

-------------------------Start of t = 86-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], ['80']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 86-------------------------

-------------------------Start of t = 87-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], ['80']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 87-------------------------

-------------------------Start of t = 88-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], ['80']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 88-------------------------

-------------------------Start of t = 89-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], ['80']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 89-------------------------

-------------------------Start of t = 90-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], ['80']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 90-------------------------

-------------------------Start of t = 91-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], ['80']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 91-------------------------

-------------------------Start of t = 92-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52', '82', '81', '79']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['71', '74'], ['73'], ['80']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

-------------------------End of t = 92-------------------------

-------------------------Start of t = 93-------------------------

Un-scheduled Nodes = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes before deletion = ['54', '83', '81', '53', '82', '52', '77', '76', '75', '79', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '81', '53', '82', '52', '79', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['81', '79']

U = [[], [], [], ['81', '79']]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80']]

S = [[], [], [], ['81', '79']]

M = [-1, -1, -1, [39, 39]]

M\* = [[], [], [], [39, 39]]

U\* = [[], [], [], ['81', '79']]

Scheduled Nodes = ['81', '79']

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 93-------------------------

-------------------------Start of t = 94-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80', '81', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 94-------------------------

-------------------------Start of t = 95-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80', '81', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 95-------------------------

-------------------------Start of t = 96-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80', '81', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 96-------------------------

-------------------------Start of t = 97-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80', '81', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 97-------------------------

-------------------------Start of t = 98-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80', '81', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 98-------------------------

-------------------------Start of t = 99-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80', '81', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 99-------------------------

-------------------------Start of t = 100-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80', '81', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 100-------------------------

-------------------------Start of t = 101-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['82', '54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['42', '48', '40', '38', '36', '50'], ['74'], [], ['80', '81', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 101-------------------------

-------------------------Start of t = 102-------------------------

Un-scheduled Nodes = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '82', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '82', '52', '51']

Nodes with Predecessor Still Busy = ['54', '51', '53', '52']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['82']

U = [[], [], [], ['82']]

B = [['42', '48', '40', '38', '36', '50'], [], [], ['80', '81', '79']]

S = [[], [], [], ['82']]

M = [-1, -1, -1, [30]]

M\* = [[], [], [], [30]]

U\* = [[], [], [], ['82']]

Scheduled Nodes = ['82']

Un-scheduled Nodes = ['54', '83', '53', '52', '77', '76', '75', '78', '51']

-------------------------End of t = 102-------------------------

-------------------------Start of t = 103-------------------------

Un-scheduled Nodes = ['54', '83', '53', '52', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '53', '52', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['77', '83', '75', '78', '76']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '53', '52', '51']

Nodes with Predecessor Still Busy = ['54', '51']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['53', '52']

U = [[], ['53'], ['52'], []]

B = [['38', '36'], [], [], ['80', '81', '82', '79']]

S = [[], ['53'], ['52'], []]

M = [-1, [9], [18], -1]

M\* = [[], [9], [18], []]

U\* = [[], ['53'], ['52'], []]

Scheduled Nodes = ['53', '52']

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 103-------------------------

-------------------------Start of t = 104-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '54', '51', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['38', '36'], ['53'], ['52'], ['81', '82', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 104-------------------------

-------------------------Start of t = 105-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '54', '51', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['38', '36'], ['53'], ['52'], ['81', '82', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 105-------------------------

-------------------------Start of t = 106-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '54', '51', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['38', '36'], ['53'], ['52'], ['81', '82', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 106-------------------------

-------------------------Start of t = 107-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '54', '51', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['38', '36'], ['53'], ['52'], ['81', '82', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 107-------------------------

-------------------------Start of t = 108-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '54', '51', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['38', '36'], ['53'], ['52'], ['81', '82', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 108-------------------------

-------------------------Start of t = 109-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '54', '51', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['38', '36'], ['53'], ['52'], ['81', '82', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 109-------------------------

-------------------------Start of t = 110-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '54', '51', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['38', '36'], ['53'], ['52'], ['81', '82', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 110-------------------------

-------------------------Start of t = 111-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '54', '51', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [['38', '36'], ['53'], ['52'], ['81', '82', '79']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

-------------------------End of t = 111-------------------------

-------------------------Start of t = 112-------------------------

Un-scheduled Nodes = ['54', '83', '77', '76', '75', '78', '51']

Nodes before deletion = ['54', '83', '77', '76', '75', '78', '51']

Nodes with no valid Scheduled Predecessor = ['83', '75', '78']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['54', '77', '76', '51']

Nodes with Predecessor Still Busy = ['77', '76']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['54', '51']

U = [[], ['54'], ['51'], []]

B = [[], ['53'], ['52'], ['81', '82', '79']]

S = [[], ['54'], ['51'], []]

M = [-1, [0], [9], -1]

M\* = [[], [0], [9], []]

U\* = [[], ['54'], ['51'], []]

Scheduled Nodes = ['54', '51']

Un-scheduled Nodes = ['83', '77', '76', '75', '78']

-------------------------End of t = 112-------------------------

-------------------------Start of t = 113-------------------------

Un-scheduled Nodes = ['83', '77', '76', '75', '78']

Nodes before deletion = ['83', '77', '76', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '76', '75', '78']

Nodes with Predecessor Still Busy = ['77', '76', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['52', '51'], ['82']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '76', '75', '78']

-------------------------End of t = 113-------------------------

-------------------------Start of t = 114-------------------------

Un-scheduled Nodes = ['83', '77', '76', '75', '78']

Nodes before deletion = ['83', '77', '76', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '76', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['76']

U = [[], [], [], ['76']]

B = [[], ['54', '53'], ['51'], ['82']]

S = [[], [], [], ['76']]

M = [-1, -1, -1, [18]]

M\* = [[], [], [], [18]]

U\* = [[], [], [], ['76']]

Scheduled Nodes = ['76']

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 114-------------------------

-------------------------Start of t = 115-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['51'], ['82', '76']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 115-------------------------

-------------------------Start of t = 116-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['51'], ['82', '76']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 116-------------------------

-------------------------Start of t = 117-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['51'], ['82', '76']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 117-------------------------

-------------------------Start of t = 118-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['51'], ['82', '76']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 118-------------------------

-------------------------Start of t = 119-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['51'], ['82', '76']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 119-------------------------

-------------------------Start of t = 120-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['51'], ['82', '76']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 120-------------------------

-------------------------Start of t = 121-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['51'], ['82', '76']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 121-------------------------

-------------------------Start of t = 122-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['77', '75', '78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54', '53'], ['51'], ['76']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '77', '75', '78']

-------------------------End of t = 122-------------------------

-------------------------Start of t = 123-------------------------

Un-scheduled Nodes = ['83', '77', '75', '78']

Nodes before deletion = ['83', '77', '75', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['77', '75', '78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['77', '75']

U = [[], [], [], ['77', '75']]

B = [[], ['54'], [], ['76']]

S = [[], [], [], ['77', '75']]

M = [-1, -1, -1, [9, 9]]

M\* = [[], [], [], [9, 9]]

U\* = [[], [], [], ['77', '75']]

Scheduled Nodes = ['77', '75']

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 123-------------------------

-------------------------Start of t = 124-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54'], [], ['77', '76', '75']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 124-------------------------

-------------------------Start of t = 125-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54'], [], ['77', '76', '75']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 125-------------------------

-------------------------Start of t = 126-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54'], [], ['77', '76', '75']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 126-------------------------

-------------------------Start of t = 127-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54'], [], ['77', '76', '75']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 127-------------------------

-------------------------Start of t = 128-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54'], [], ['77', '76', '75']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 128-------------------------

-------------------------Start of t = 129-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54'], [], ['77', '76', '75']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 129-------------------------

-------------------------Start of t = 130-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54'], [], ['77', '76', '75']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 130-------------------------

-------------------------Start of t = 131-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = ['78']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], ['54'], [], ['77', '76', '75']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83', '78']

-------------------------End of t = 131-------------------------

-------------------------Start of t = 132-------------------------

Un-scheduled Nodes = ['83', '78']

Nodes before deletion = ['83', '78']

Nodes with no valid Scheduled Predecessor = ['83']

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['78']

Nodes with Predecessor Still Busy = []

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = ['78']

U = [[], [], [], ['78']]

B = [[], [], [], ['77', '76', '75']]

S = [[], [], [], ['78']]

M = [-1, -1, -1, [0]]

M\* = [[], [], [], [0]]

U\* = [[], [], [], ['78']]

Scheduled Nodes = ['78']

Un-scheduled Nodes = ['83']

-------------------------End of t = 132-------------------------

-------------------------Start of t = 133-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '76', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 133-------------------------

-------------------------Start of t = 134-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 134-------------------------

-------------------------Start of t = 135-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 135-------------------------

-------------------------Start of t = 136-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 136-------------------------

-------------------------Start of t = 137-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 137-------------------------

-------------------------Start of t = 138-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 138-------------------------

-------------------------Start of t = 139-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 139-------------------------

-------------------------Start of t = 140-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 140-------------------------

-------------------------Start of t = 141-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 141-------------------------

-------------------------Start of t = 142-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['77', '75', '78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 142-------------------------

-------------------------Start of t = 143-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 143-------------------------

-------------------------Start of t = 144-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 144-------------------------

-------------------------Start of t = 145-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 145-------------------------

-------------------------Start of t = 146-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 146-------------------------

-------------------------Start of t = 147-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 147-------------------------

-------------------------Start of t = 148-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 148-------------------------

-------------------------Start of t = 149-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 149-------------------------

-------------------------Start of t = 150-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 150-------------------------

-------------------------Start of t = 151-------------------------

Un-scheduled Nodes = ['83']

Nodes before deletion = ['83']

Nodes with no valid Scheduled Predecessor = []

Nodes after 'Nodes with no valid Scheduled Predecessor' removed = ['83']

Nodes with Predecessor Still Busy = ['83']

Nodes after Invalid 'Nodes with Predecessor Still Busy' removed = []

U = [[], [], [], []]

B = [[], [], [], ['78']]

S = [[], [], [], []]

M = [-1, -1, -1, -1]

M\* = [[], [], [], []]

U\* = [[], [], [], []]

Scheduled Nodes = []

Un-scheduled Nodes = ['83']

-------------------------End of t = 151-------------------------

-------------------------Start of t = 152-------------------------

Sink Node scheduled at t = 152

=========================End of t = 152=========================

---------------------- RESULTS ----------------------

Minimum Latency = 151