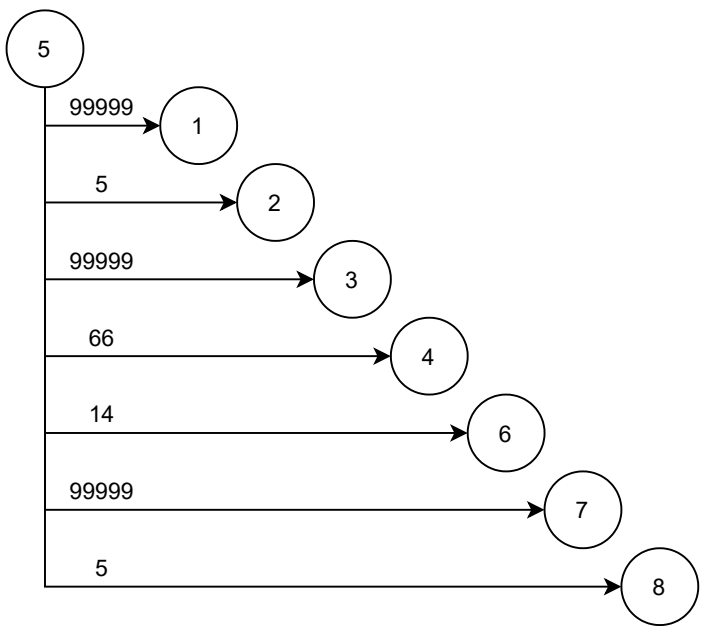
Cost Matrix

0	1	2	3	4	5	6	7	8
1	0	30	5	19	29	∞	∞	∞
2	∞	0	5	3	∞	17	∞	2
3	∞	7	0	5	∞	∞	28	9
4	6	∞	33	0	8	3	∞	∞
5	∞	5	∞	66	0	14	∞	5
6	6	∞	6	24	∞	0	9	∞
7	∞	15	4	4	∞	3	0	∞
8	6	∞	∞	∞	2	7	32	0

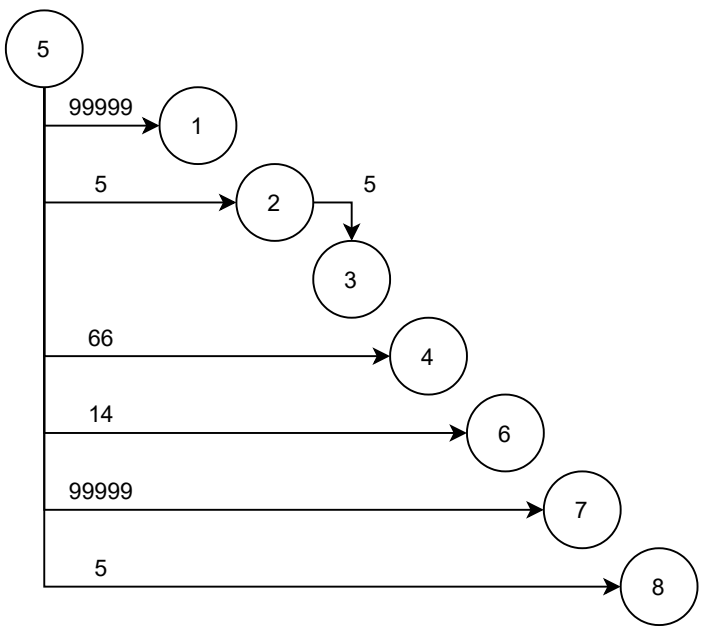
Source Node ID = 5

Initial Graph



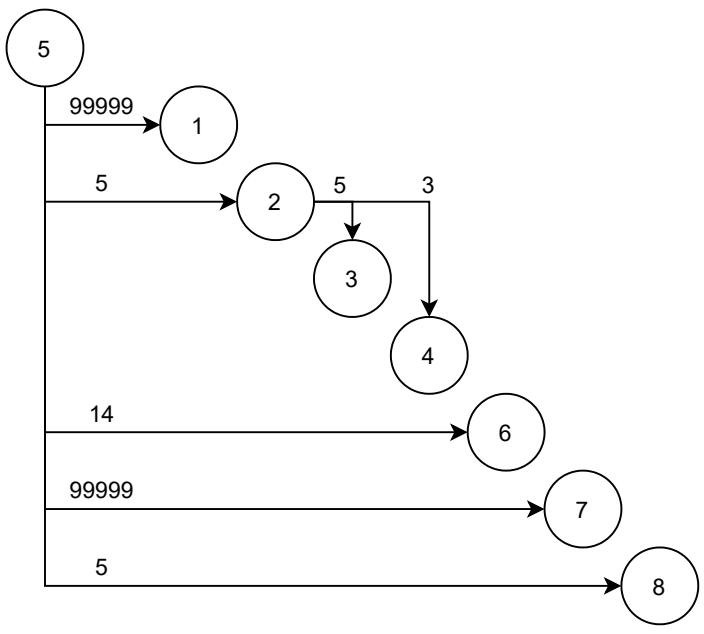
Initial Array Values:
Best Cost Array = 99999 05 99999 66 00 14 99999 05
Marked Array = 00 01 00 00 01 00 00 00
Father Array = 01 02 03 04 05 06 07 08

loop 1



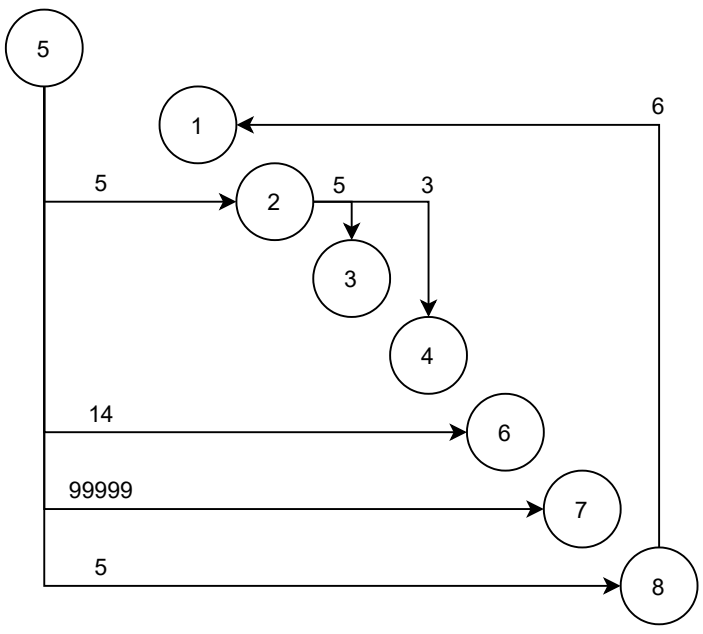
Loop 1
Best Cost Array = 99999 05 10 66 00 14 99999 05
Marked Array = 00 01 00 00 01 00 00 00
Father Array = 01 02 02 04 05 06 07 08

loop 2



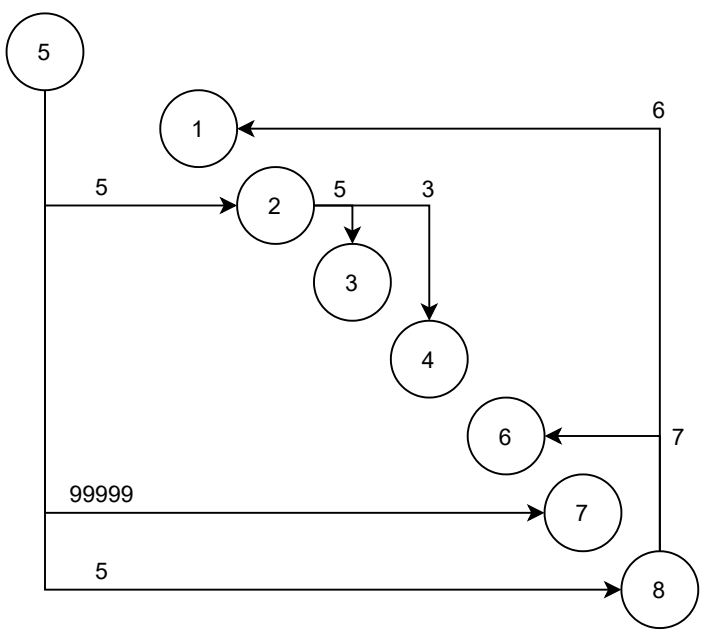
Loop 2
Best Cost Array = 99999 05 10 08 00 14 99999 05
Marked Array = 00 01 00 00 01 00 00 00
Father Array = 01 02 02 02 05 06 07 08

loop 3



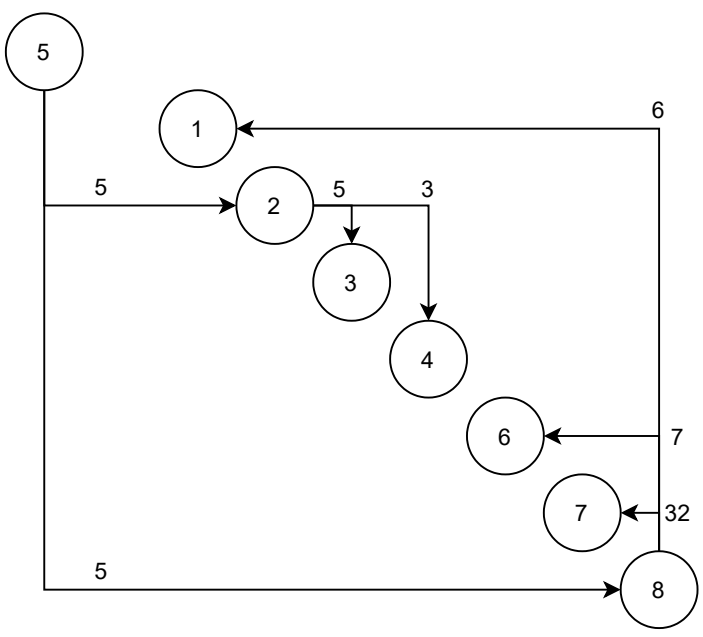
Loop 3
Best Cost Array = 11 05 10 08 00 14 99999 05
Marked Array = 00 01 00 00 01 00 00 01
Father Array = 08 02 02 02 05 06 07 08

loop 4



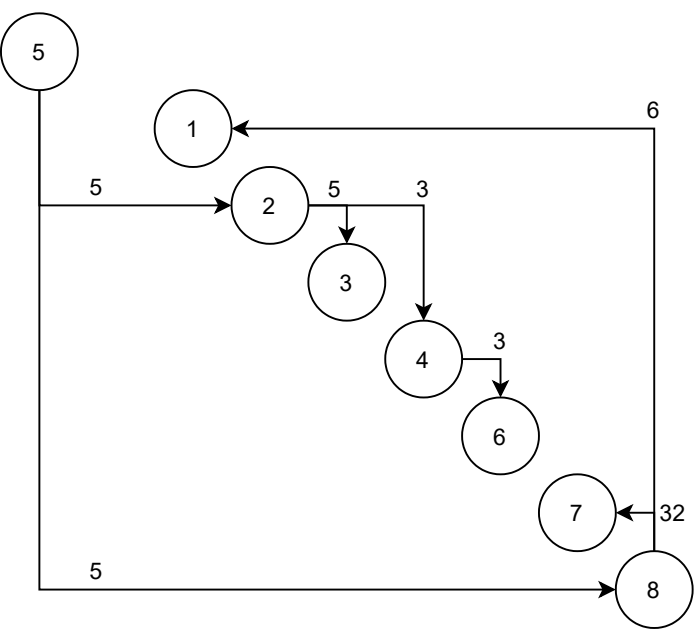
Loop 4
Best Cost Array = 11 05 10 08 00 12 99999 05
Marked Array = 00 01 00 00 01 00 00 01
Father Array = 08 02 02 02 05 08 07 08

loop 5



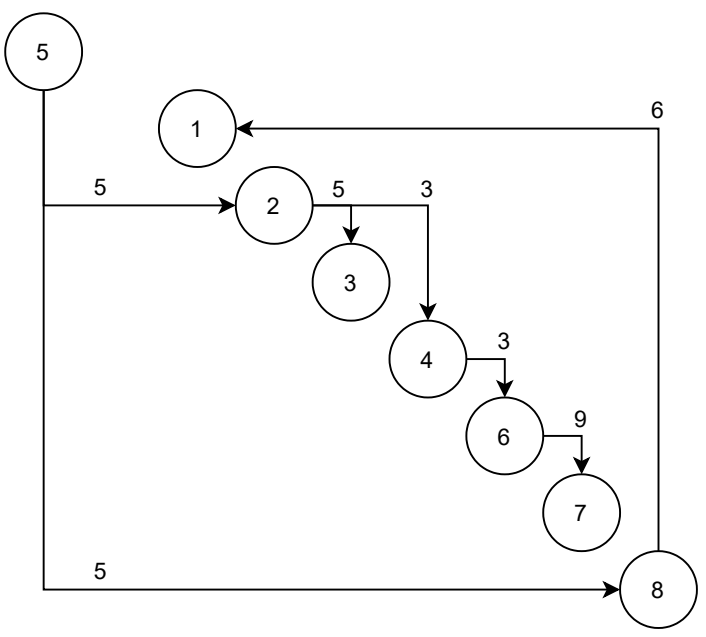
Loop 5
Best Cost Array = 11 05 10 08 00 12 37 05
Marked Array = 00 01 00 00 01 00 00 01
Father Array = 08 02 02 02 05 08 08 08

loop 6



Loop 6
Best Cost Array = 11 05 10 08 00 11 37 05
Marked Array = 00 01 00 01 01 00 00 01
Father Array = 08 02 02 02 05 04 08 08

loop 7 and final graph



Loop 7
Best Cost Array = 11 05 10 08 00 11 20 05
Marked Array = 01 01 01 01 01 01 00 01
Father Array = 08 02 02 02 05 04 06 08