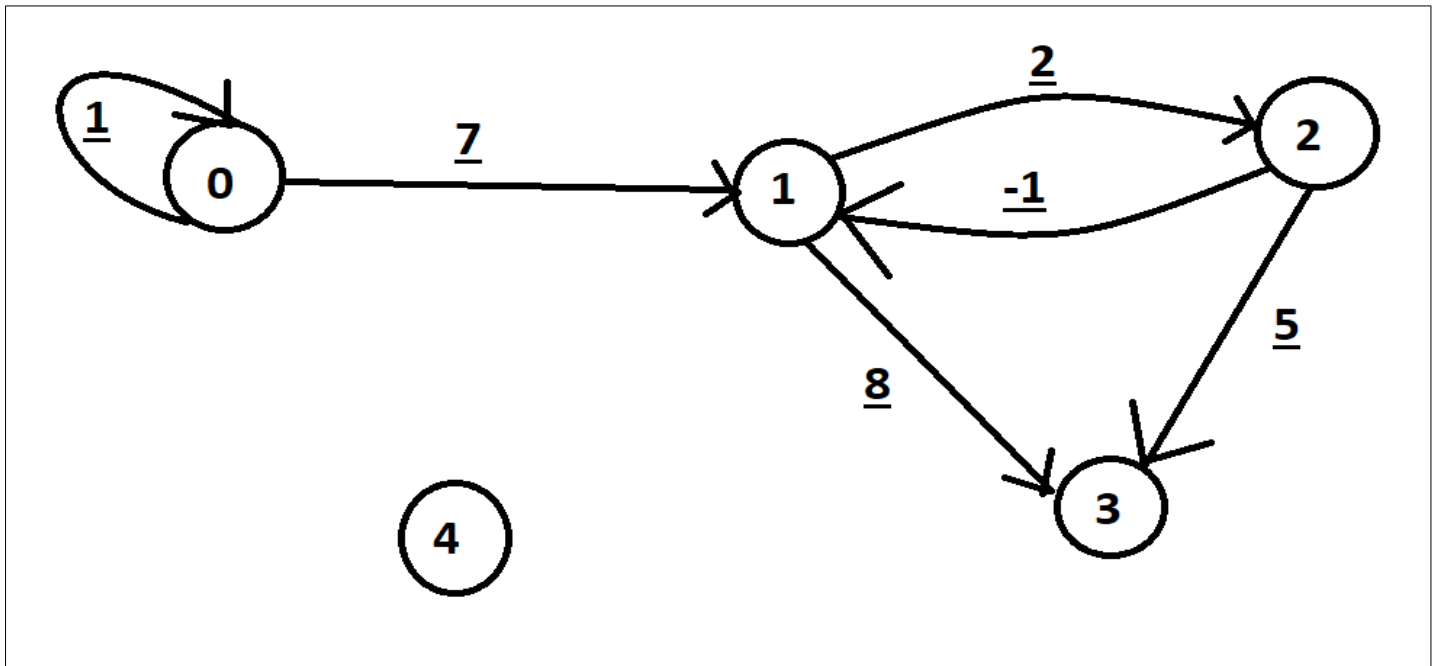


Graph Lab1



Set of Vertices:

Vertex0{In-Degree=1, Out-Degree=2}

Vertex1{In-Degree=2, Out-Degree=2}

Vertex2{In-Degree=1, Out-Degree=2}

Vertex3{In-Degree=2, Out-Degree=0}

Vertex4{In-Degree=0, Out-Degree=0}

In From: V0 | Out To: V1

In From: V0, V2 | Out To: V2, V3

In From: V1 | Out To: V1, V3

In From: V1, V2

Set of Edges:

Edge{Vertex1=1, Vertex2=2, Weight=2}

Edge{Vertex1=2, Vertex2=1, Weight=-1}

Edge{Vertex1=0, Vertex2=0, Weight=1}

Edge{Vertex1=1, Vertex2=3, Weight=8}

Edge{Vertex1=2, Vertex2=3, Weight=5}

Edge{Vertex1=0, Vertex2=1, Weight=7}

Traversal:

V0 (→ V0) → V1 (→ V2 → V1) → V3

V0 (→ V0) → V1 → V2 → (V1 → V2) → V3

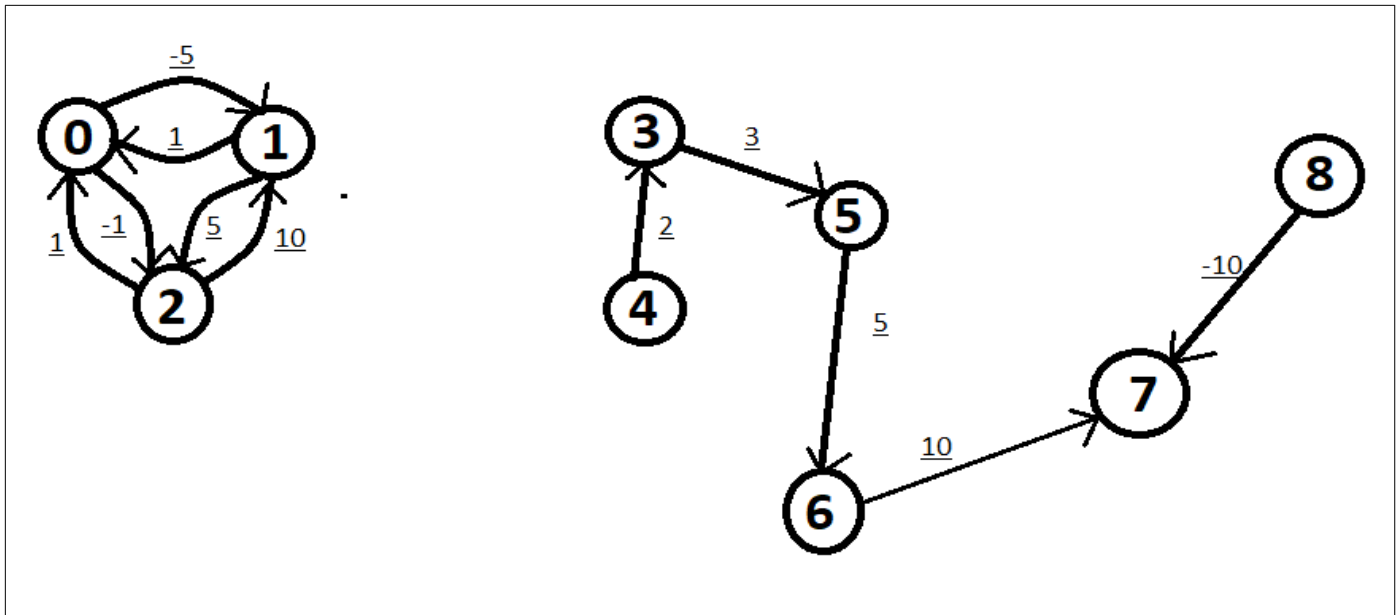
V1 → V3

V1 (→ V2 → V1) → V3

V1 → V2 (→ V1 → V2) → V3

V2 → V1 (→ V2 → V1) → V3

V2 → V3



Set of Vertices:

Vertex0{In-Degree=2, Out-Degree=2, }	In From: V1, V2 Out To: V1, V2
Vertex1{In-Degree=2, Out-Degree=2, }	In From: V0, V2 Out To: V0, V2
Vertex2{In-Degree=2, Out-Degree=2, }	In From: V0, V1 Out To: V0, V1
Vertex3{In-Degree=1, Out-Degree=1, }	In From: V4 Out To: V5
Vertex4{In-Degree=0, Out-Degree=1, }	Out To: V3
Vertex5{In-Degree=1, Out-Degree=1, }	In From: V3 Out To: V6
Vertex6{In-Degree=1, Out-Degree=1, }	In From: V5 Out To: V7
Vertex7{In-Degree=2, Out-Degree=0, }	In From: V6, V8
Vertex8{In-Degree=0, Out-Degree=1, }	Out To: V7

Set of Edges

Edge{Vertex1=2, Vertex2=1, Weight=10}
 Edge{Vertex1=3, Vertex2=5, Weight=3}
 Edge{Vertex1=4, Vertex2=3, Weight=2}
 Edge{Vertex1=0, Vertex2=2, Weight=-1}
 Edge{Vertex1=8, Vertex2=7, Weight=-10}
 Edge{Vertex1=2, Vertex2=0, Weight=1}
 Edge{Vertex1=6, Vertex2=7, Weight=10}
 Edge{Vertex1=0, Vertex2=1, Weight=-5}
 Edge{Vertex1=1, Vertex2=0, Weight=1}
 Edge{Vertex1=5, Vertex2=6, Weight=5}
 Edge{Vertex1=1, Vertex2=2, Weight=5}

Traversal:

V0 → V1 → V2
 V0 → V2 → V1
 V1 → V2 → V0
 V1 → V0 → V2
 V2 → V1 → V0

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$V2 \rightarrow V0 \rightarrow V1$

$V3 \rightarrow V5 \rightarrow V6 \rightarrow V7$

$V4 \rightarrow V3 \rightarrow V5 \rightarrow V6 \rightarrow V7$

$V5 \rightarrow V6 \rightarrow V7$

$V6 \rightarrow V7$

$V8 \rightarrow V7$