```mathematica
In[594]:= edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
      5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
    path = {0};
    edgesToHighlight = Partition[path, 2, 1];
    edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
    erf[pts_, edge_, ___] :=
      If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
        {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
    GraphPlot[edges, PlotLabel → "path from 0 to 0", DirectedEdges → True,
     VertexLabeling → True, Frame → True,
     EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

    edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
      5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
    path = {0, 4, 5, 1};
    edgesToHighlight = Partition[path, 2, 1];
    edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
    erf[pts_, edge_, ___] :=
      If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
        {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
    GraphPlot[edges, PlotLabel → "path from 0 to 1", DirectedEdges → True,
     VertexLabeling → True, Frame → True,
     EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

    edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
      5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
    path = {0, 2};
    edgesToHighlight = Partition[path, 2, 1];
    edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
    erf[pts_, edge_, ___] :=
      If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
        {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
    GraphPlot[edges, PlotLabel → "path from 0 to 2", DirectedEdges → True,
     VertexLabeling → True, Frame → True,
     EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

    edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
      5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
    path = {0, 2, 7, 3};
    edgesToHighlight = Partition[path, 2, 1];
    edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
    erf[pts_, edge_, ___] :=
      If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
        {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
    GraphPlot[edges, PlotLabel → "path from 0 to 3", DirectedEdges → True,
     VertexLabeling → True, Frame → True,
     EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

    edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
      5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
    path = {0, 4};
    edgesToHighlight = Partition[path, 2, 1];
```

```
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 0 to 4", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {0, 4, 5};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 0 to 5", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {0, 2, 7, 3, 6};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 0 to 6", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {0, 2, 7};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 0 to 7", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {1, 3, 6, 0};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
```

```
GraphPlot[edges, PlotLabel → "path from 1 to 0", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {1};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
   {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 1 to 1", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {1, 3, 6, 2};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
   {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 1 to 2", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {1, 3};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
   {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 1 to 3", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {1, 3, 6, 4};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
   {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 1 to 4", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]
```

```
edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {1, 3, 6, 2, 7, 5};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 1 to 5", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {1, 3, 6};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 1 to 6", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {1, 3, 6, 2, 7};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 1 to 7", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {2, 7, 3, 6, 0};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 2 to 0", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
   5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {2, 7, 5, 1};
edgesToHighlight = Partition[path, 2, 1];
```

```
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 2 to 1", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {2};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 2 to 2", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {2, 7, 3};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 2 to 3", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {2, 7, 5, 4};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 2 to 4", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {2, 7, 5};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
```

```
GraphPlot[edges, PlotLabel → "path from 2 to 5", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {2, 7, 3, 6};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 2 to 6", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {2, 7};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 2 to 7", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {3, 6, 0};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 3 to 0", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {3, 6, 2, 7, 5, 1};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 3 to 1", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]
```

```
edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {3, 6, 2};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 3 to 2", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {3};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 3 to 3", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {3, 6, 4};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 3 to 4", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {3, 6, 2, 7, 5};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 3 to 5", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {3, 6};
edgesToHighlight = Partition[path, 2, 1];
```

```
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 3 to 6", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {3, 6, 2, 7};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 3 to 7", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {4, 7, 3, 6, 0};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 4 to 0", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {4, 5, 1};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 4 to 1", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {4, 7, 3, 6, 2};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
```

```
GraphPlot[edges, PlotLabel → "path from 4 to 2", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {4, 7, 3};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 4 to 3", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {4};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 4 to 4", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {4, 5};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 4 to 5", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {4, 7, 3, 6};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 4 to 6", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]
```

```
edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {4, 7};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 4 to 7", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {5, 1, 3, 6, 0};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 5 to 0", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {5, 1};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 5 to 1", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {5, 1, 3, 6, 2};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
  If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 5 to 2", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {5, 1, 3};
edgesToHighlight = Partition[path, 2, 1];
```

```
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 5 to 3", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {5, 4};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 5 to 4", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {5};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 5 to 5", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {5, 1, 3, 6};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 5 to 6", DirectedEdges → True,
  VertexLabeling → True, Frame → True,
  EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {5, 7};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
```

```
GraphPlot[edges, PlotLabel → "path from 5 to 7", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {6, 0};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 6 to 0", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {6, 2, 7, 5, 1};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 6 to 1", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {6, 2};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 6 to 2", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {6, 2, 7, 3};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 6 to 3", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]
```
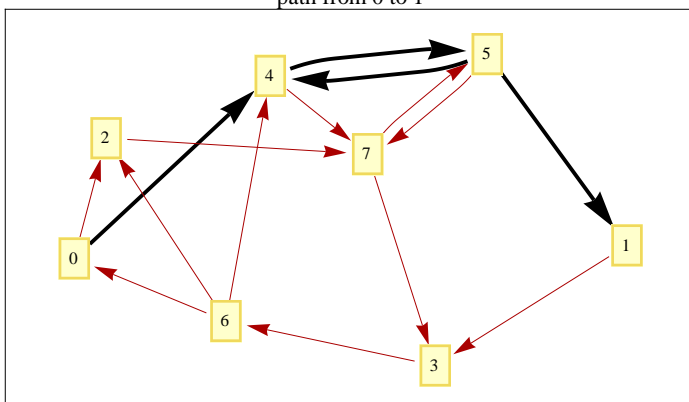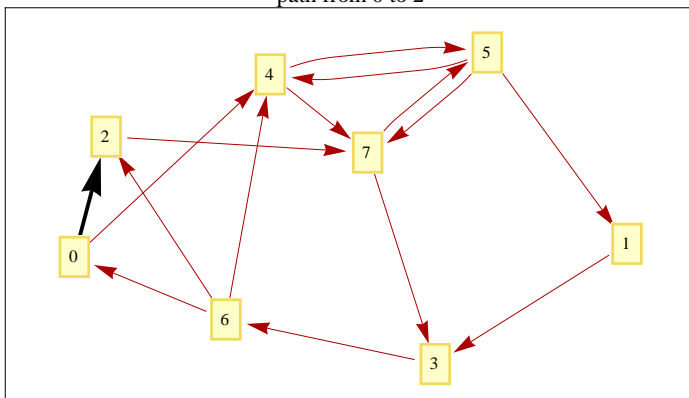
```
edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {6, 4};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 6 to 4", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {6, 2, 7, 5};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 6 to 5", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {6};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 6 to 6", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {6, 2, 7};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
    {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 6 to 7", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {7, 3, 6, 0};
edgesToHighlight = Partition[path, 2, 1];
```

```
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 7 to 0", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {7, 5, 1};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 7 to 1", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {7, 3, 6, 2};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 7 to 2", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {7, 3};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 7 to 3", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]


edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {7, 5, 4};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
```

```
GraphPlot[edges, PlotLabel → "path from 7 to 4", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {7, 5};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 7 to 5", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {7, 3, 6};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 7 to 6", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]

edges = {4 → 5, 5 → 4, 4 → 7, 5 → 7, 7 → 5,
    5 → 1, 0 → 4, 0 → 2, 7 → 3, 1 → 3, 2 → 7, 6 → 2, 3 → 6, 6 → 0, 6 → 4};
path = {7};
edgesToHighlight = Partition[path, 2, 1];
edgesToHighlight = Join[edgesToHighlight, Reverse /@ edgesToHighlight];
erf[pts_, edge_, ___] :=
   If[MemberQ[edgesToHighlight, edge], {Thick, Black, {Arrowheads[Large], Arrow[pts, 0.1]}},
     {Darker[Red], {Arrowheads[Medium], Arrow[pts, 0.1]}}];
GraphPlot[edges, PlotLabel → "path from 7 to 7", DirectedEdges → True,
 VertexLabeling → True, Frame → True,
 EdgeRenderingFunction → erf, Method → "SpringEmbedding"]
```

Out[599]=

path from 0 to 0
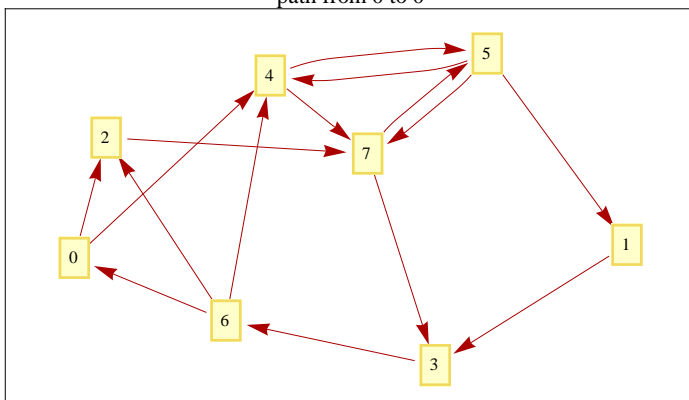
Out[605]=

path from 0 to 1

Out[611]=

path from 0 to 2

path from 0 to 3

Out[617]=

path from 0 to 4

Out[623]=

path from 0 to 5

Out[629]=
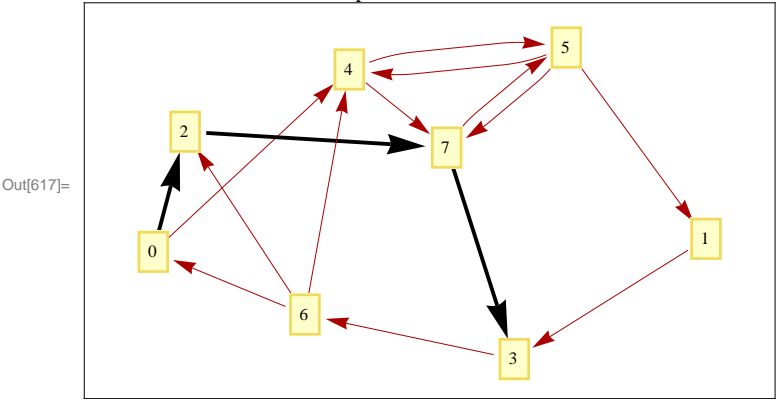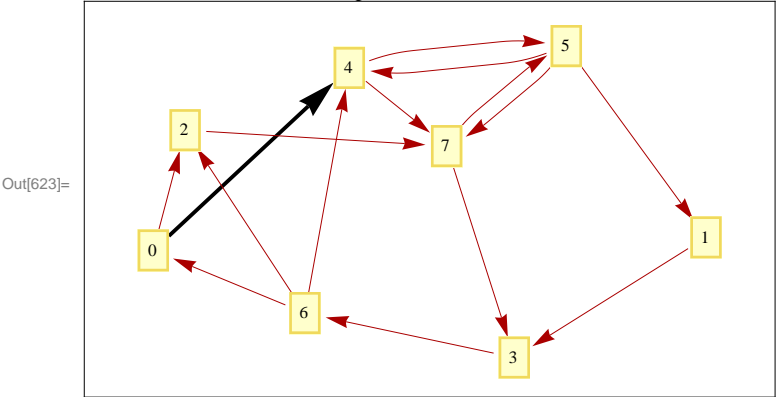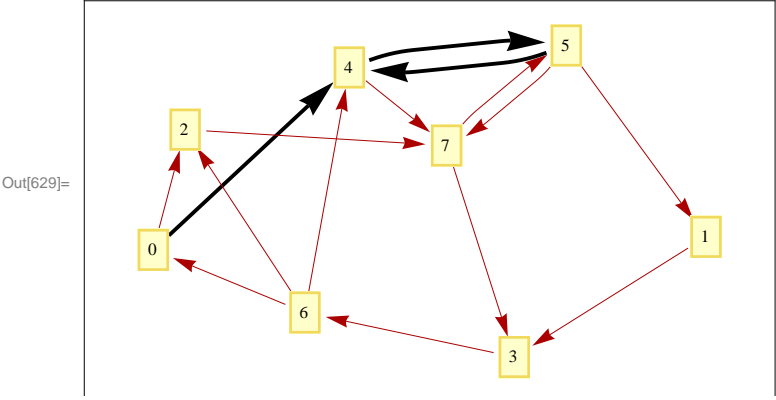
path from 0 to 6

Out[635]=
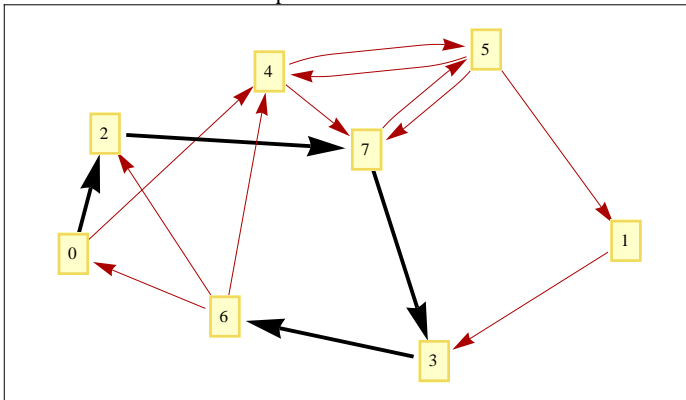
path from 0 to 7

Out[641]=
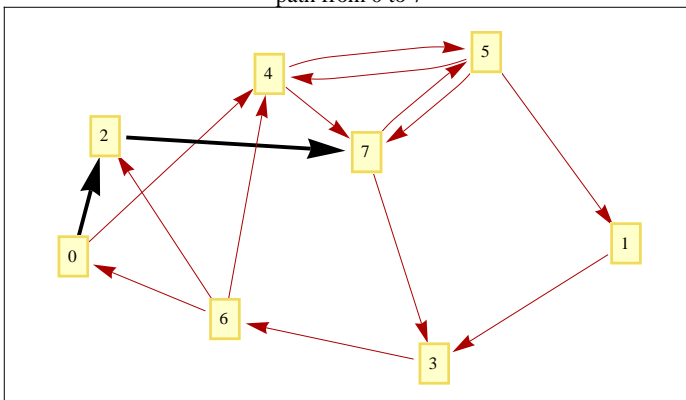
path from 1 to 0

Out[647]=

path from 1 to 1

Out[653]=

path from 1 to 2

Out[659]=

path from 1 to 3

Out[665]=
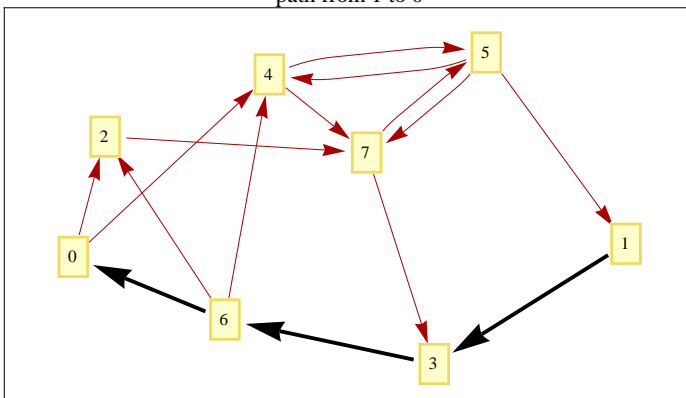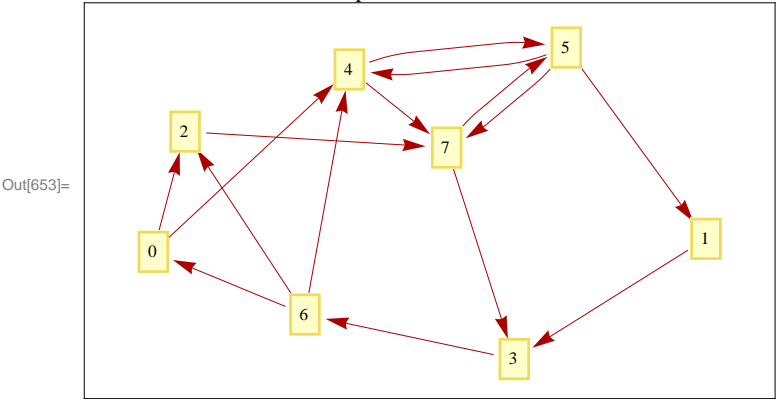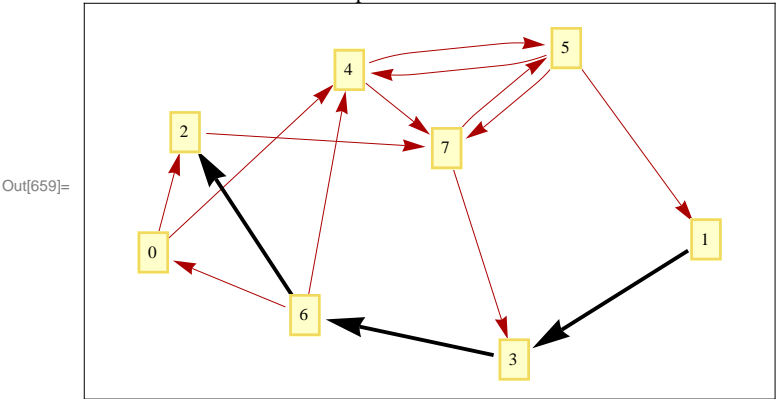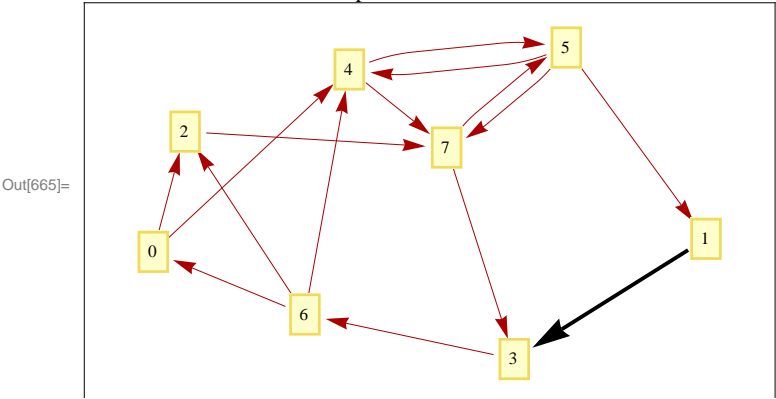
path from 1 to 4

Out[671]=
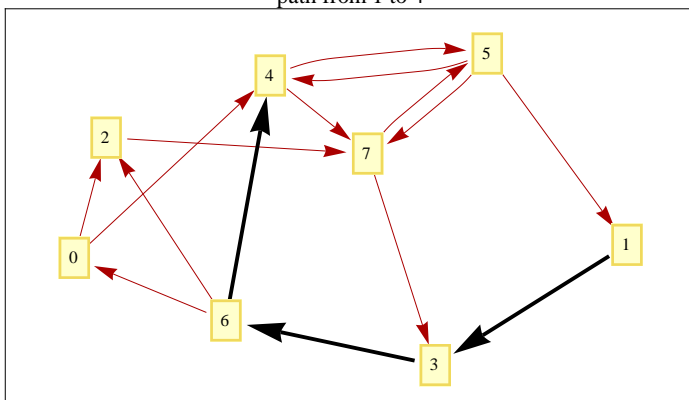

path from 1 to 5

Out[677]=
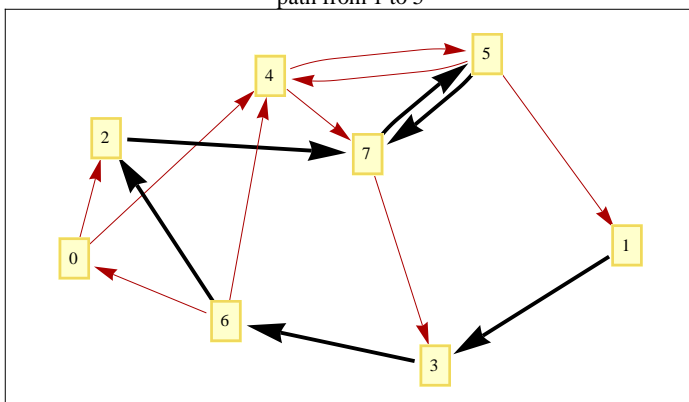
path from 1 to 6

Out[683]=

Out[689]=

path from 1 to 7

Out[695]=
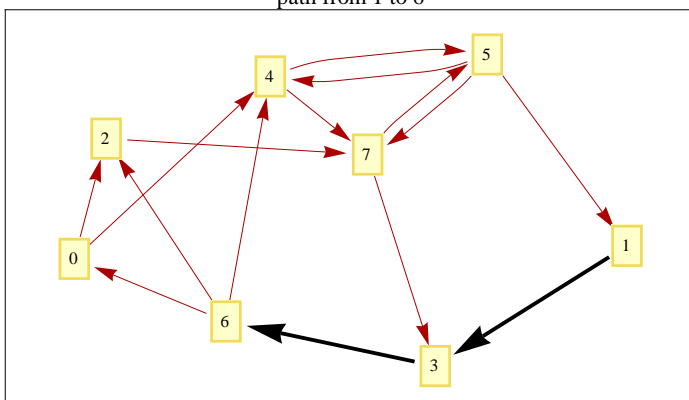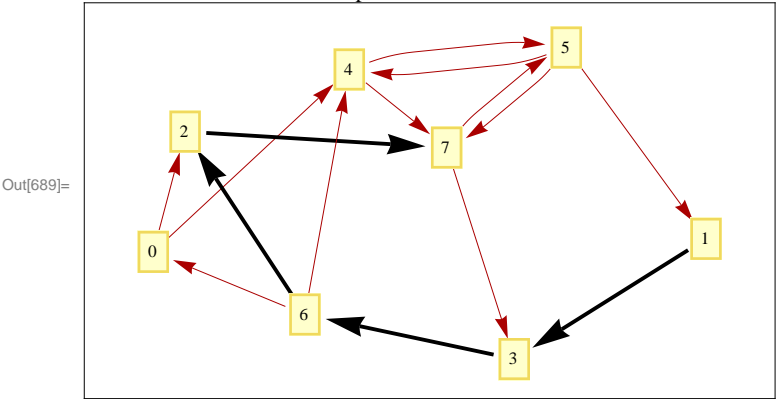
path from 2 to 0
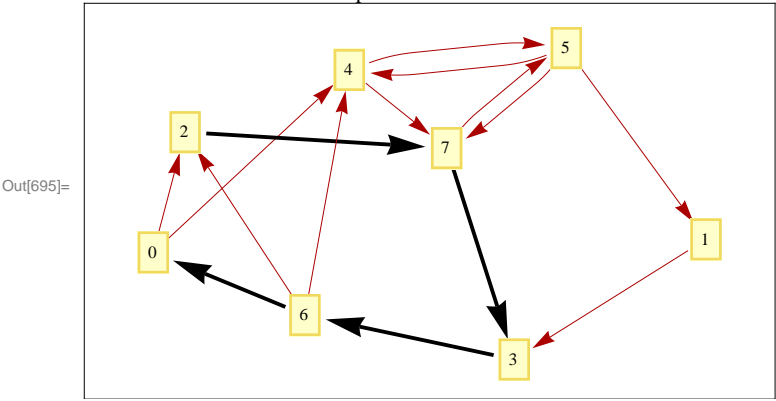
Out[701]=
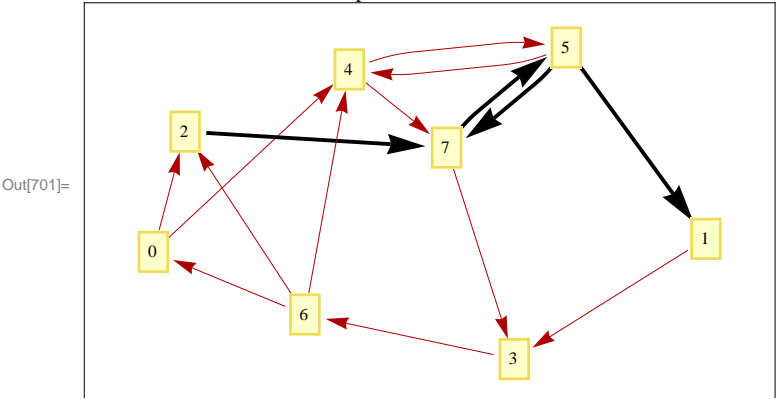
path from 2 to 1

path from 2 to 2

Out[707]=
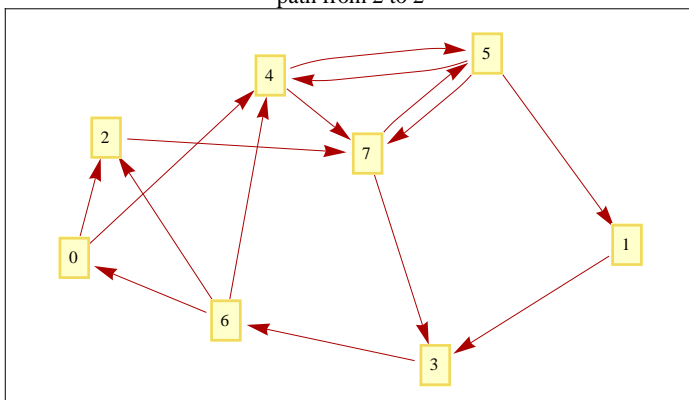
path from 2 to 3

Out[713]=
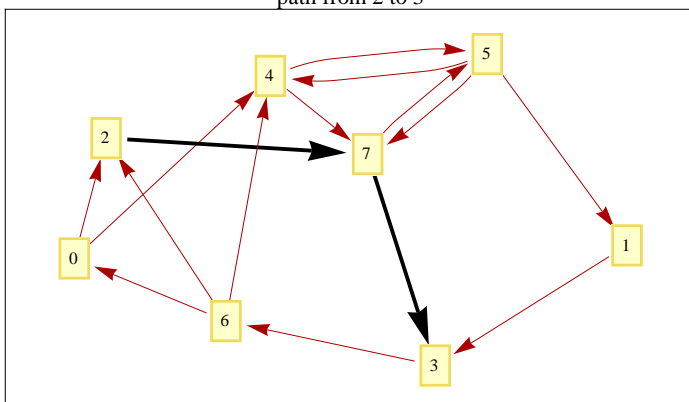
path from 2 to 4

Out[719]=
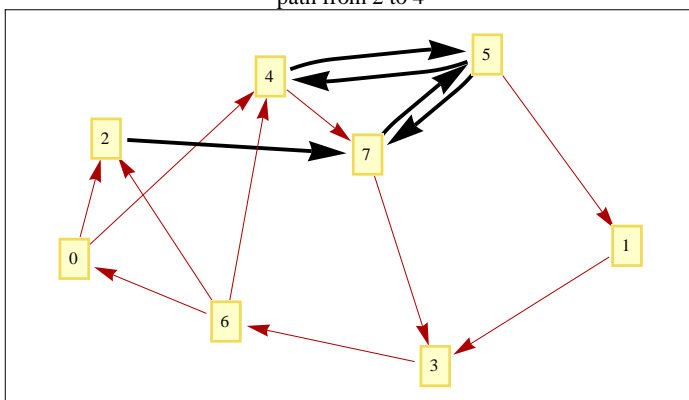
path from 2 to 5

Out[725]=
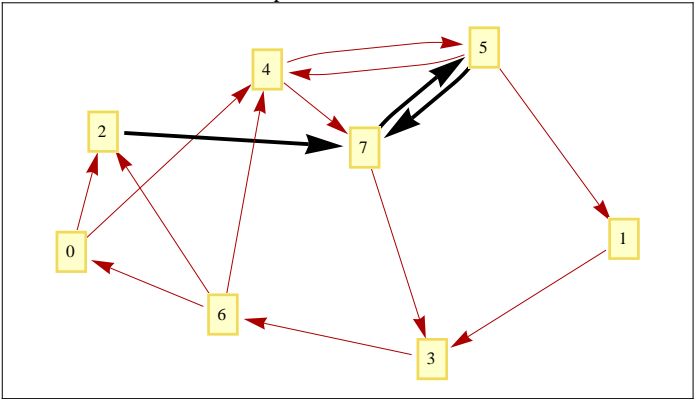
path from 2 to 6

Out[731]=
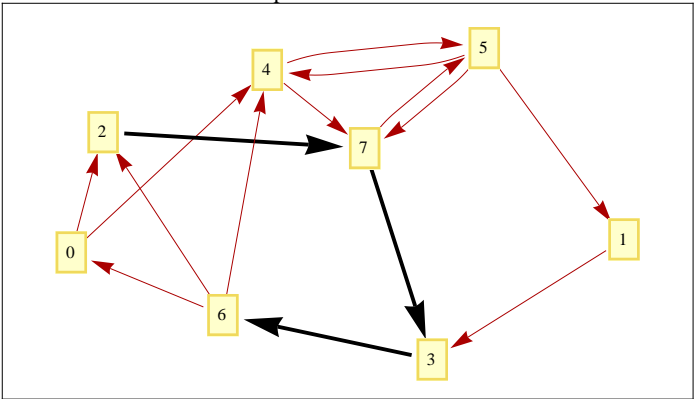
path from 2 to 7

Out[737]=
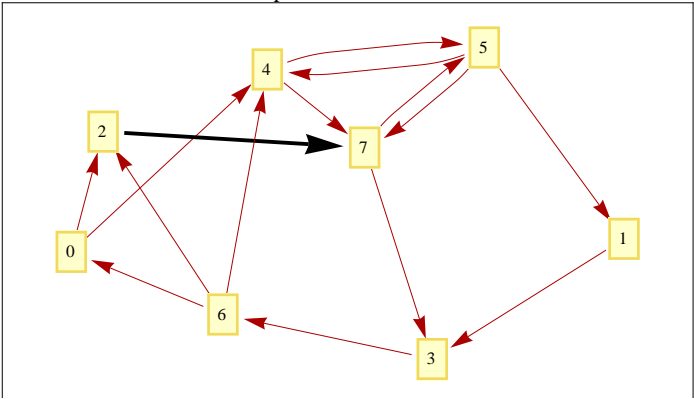
path from 3 to 0

Out[743]=
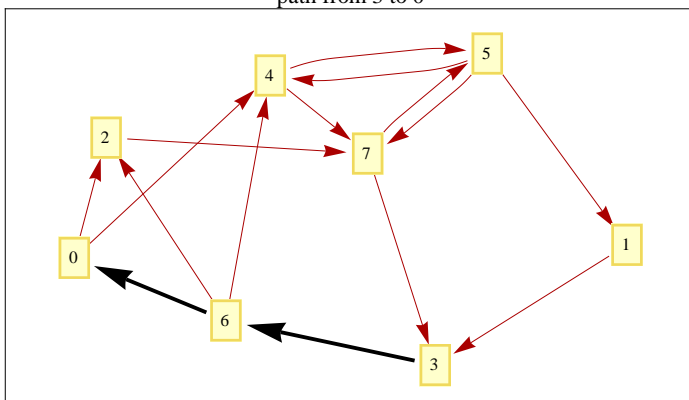
path from 3 to 1

Out[749]=
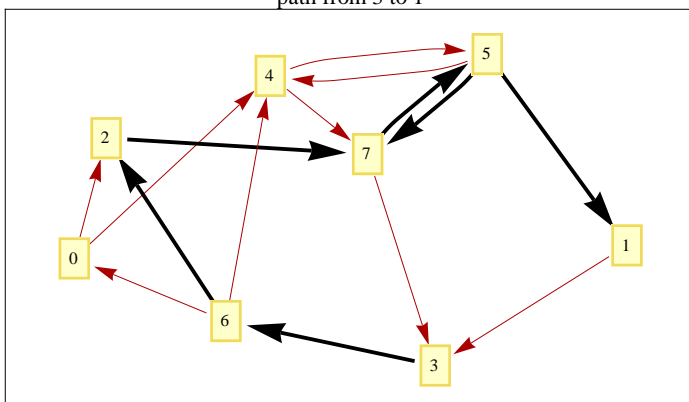
path from 3 to 2

Out[755]=
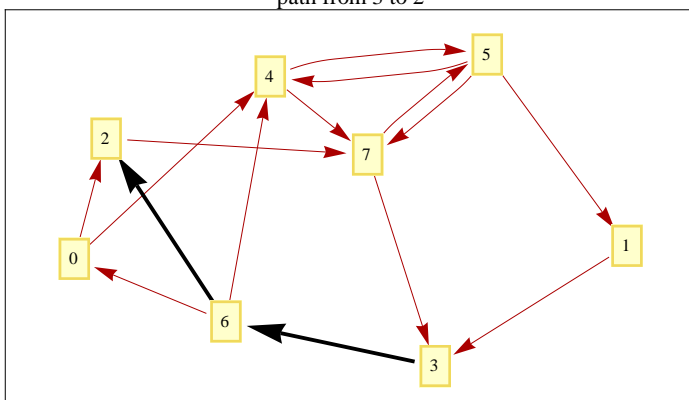
path from 3 to 3

Out[761]=
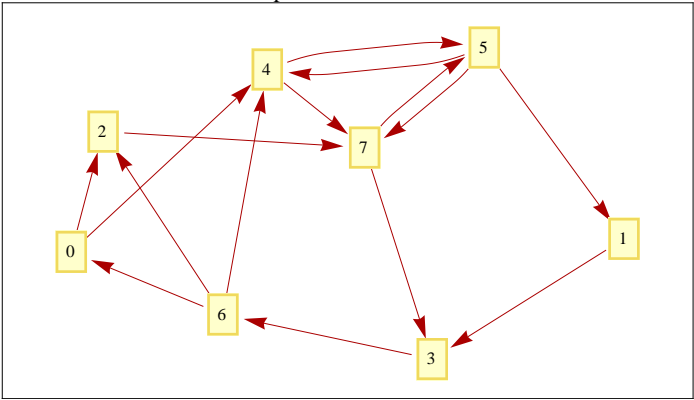
path from 3 to 4

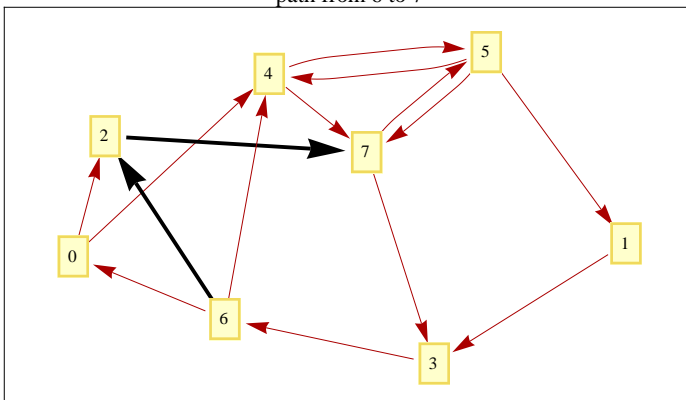
Out[767]=
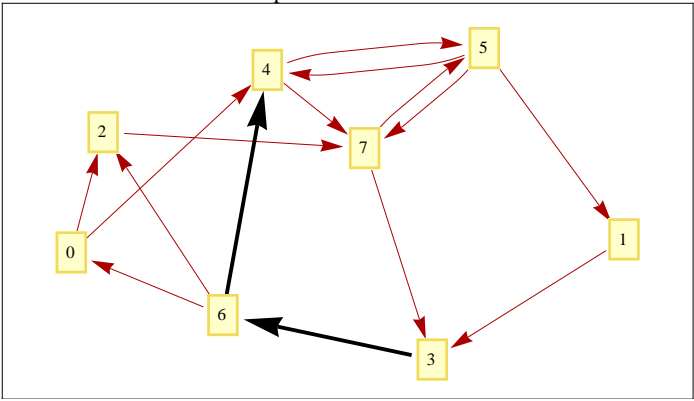
path from 3 to 5

Out[773]=
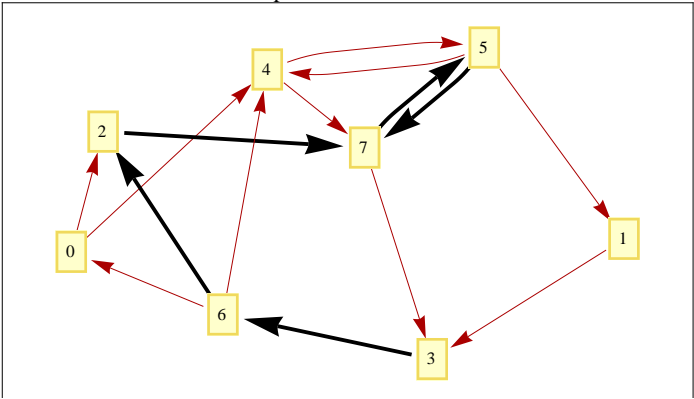
path from 3 to 6

Out[779]=
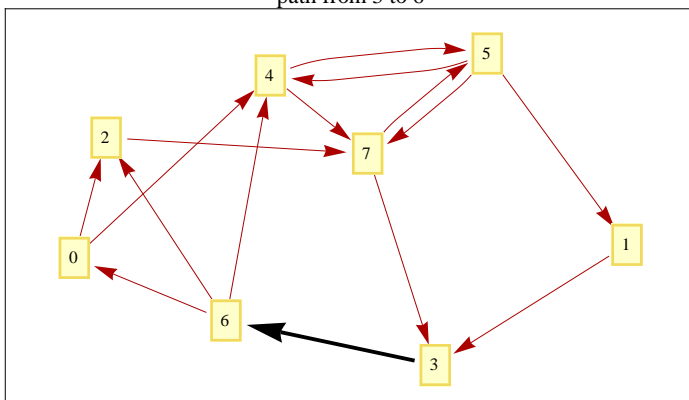
path from 3 to 7

Out[785]=
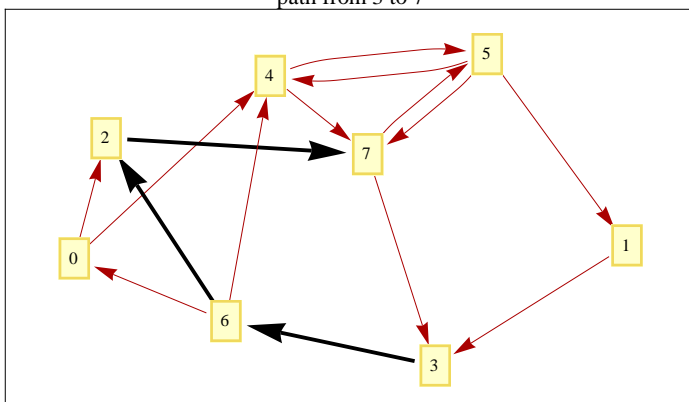
path from 4 to 0

Out[791]=
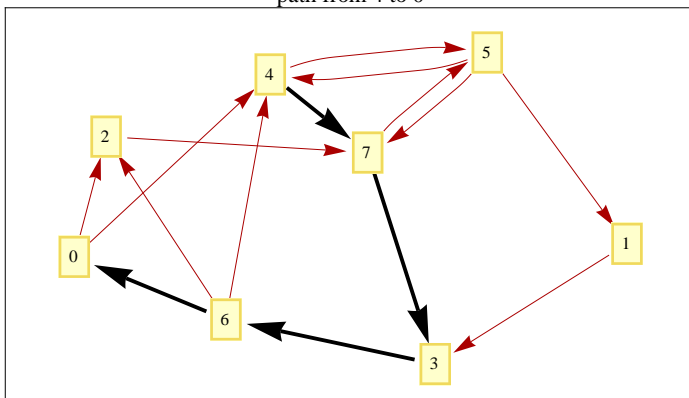
path from 4 to 1

Out[797]=
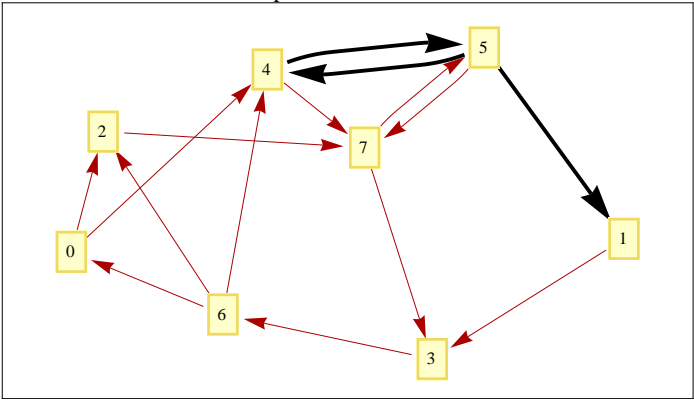
path from 4 to 2

Out[803]=
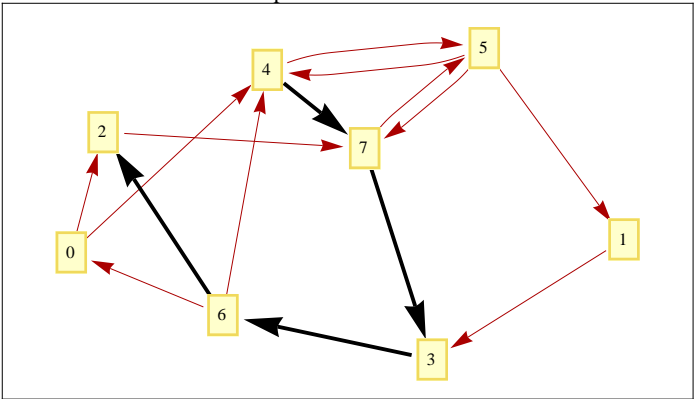
path from 4 to 3

Out[809]=
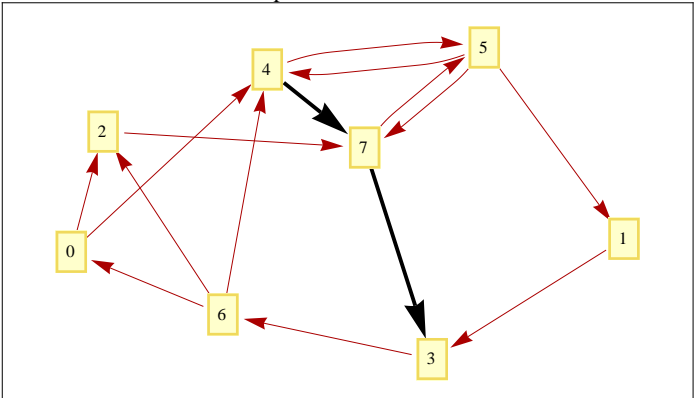
path from 4 to 4

Out[815]=
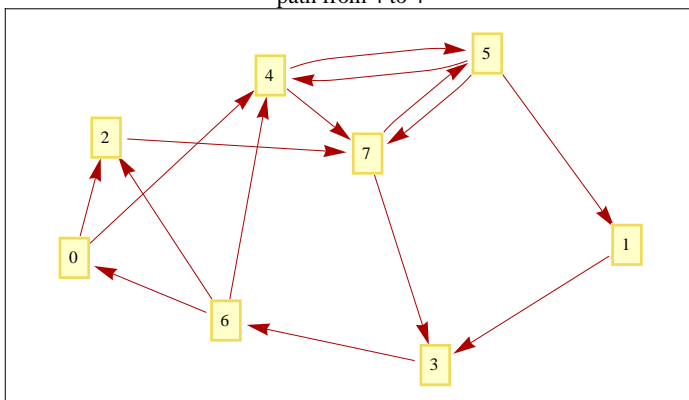
path from 4 to 5

Out[821]=
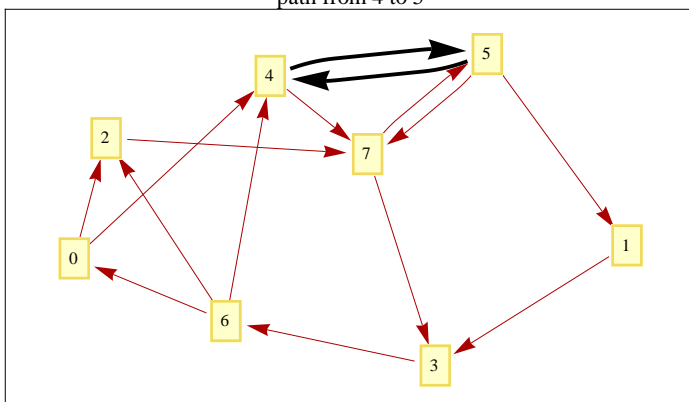
path from 4 to 6

Out[827]=
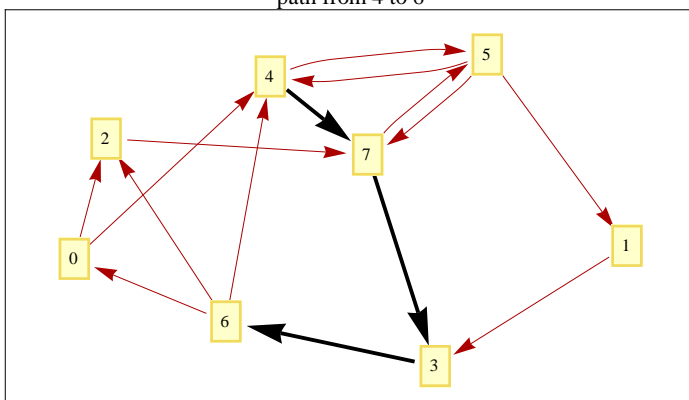
path from 4 to 7

Out[833]=
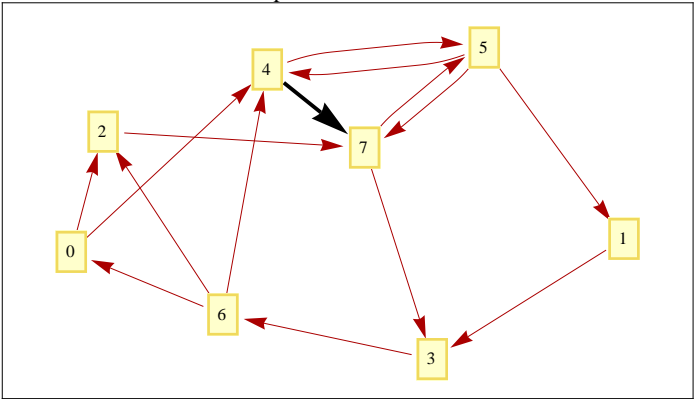
path from 5 to 0

Out[839]=
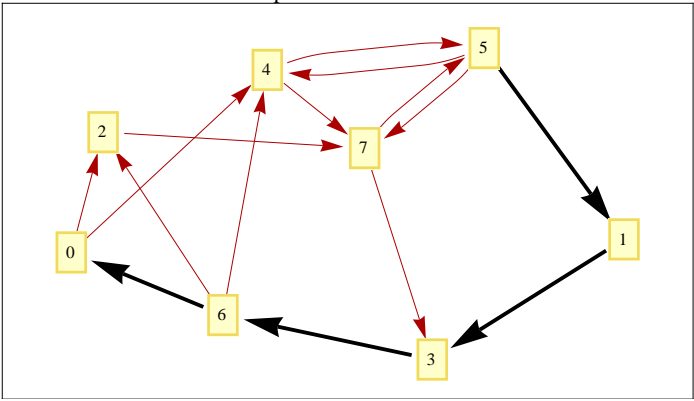
path from 5 to 1

Out[845]=
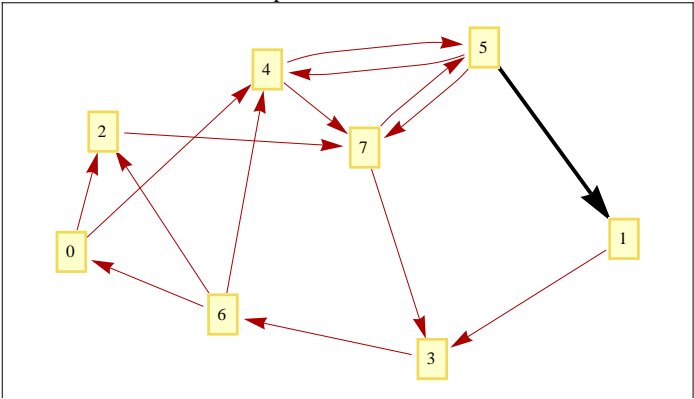
path from 5 to 2

Out[851]=
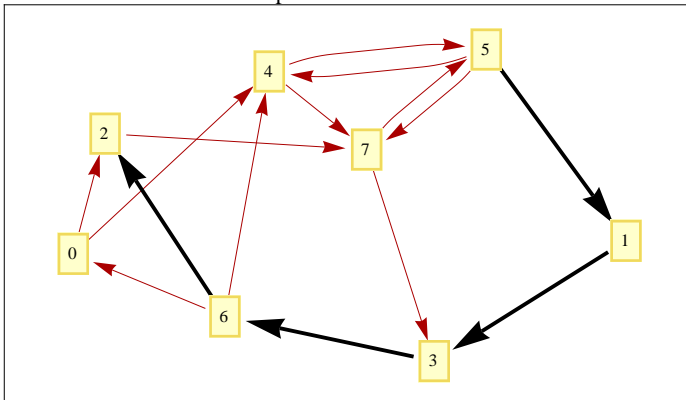
path from 5 to 3

Out[857]=
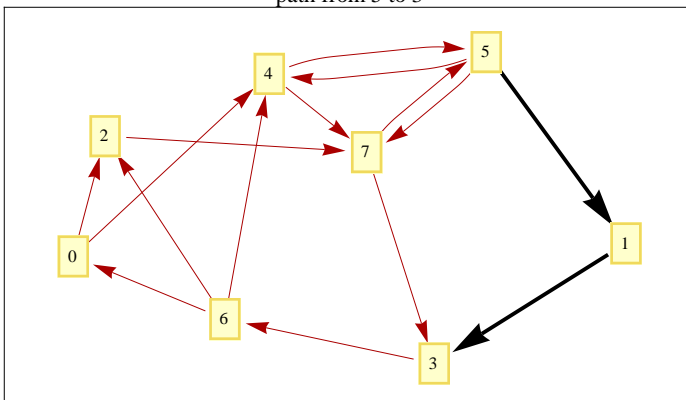
path from 5 to 4

Out[863]=

path from 5 to 5

Out[869]=

path from 5 to 6

Out[875]=
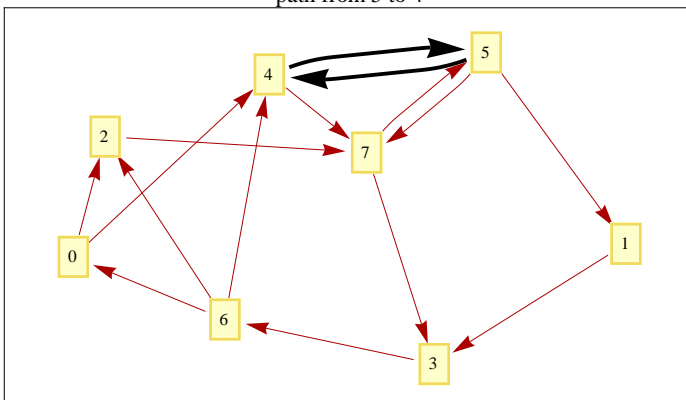
path from 5 to 7

Out[881]=

path from 6 to 0

Out[887]=
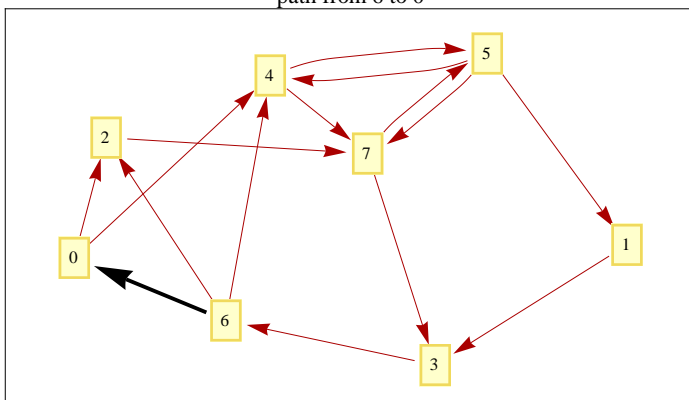
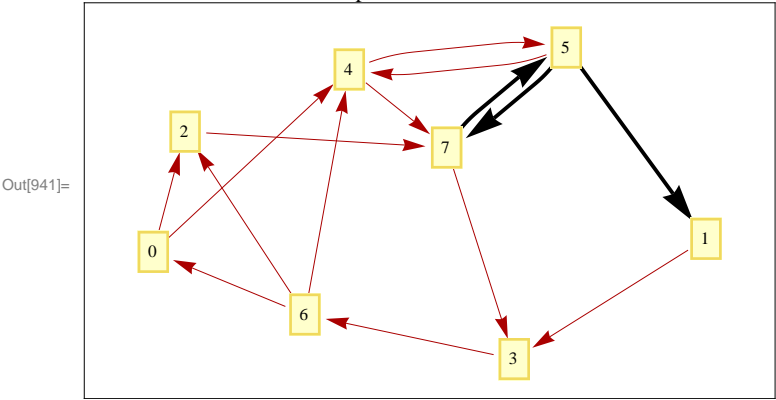
path from 6 to 1

Out[893]=
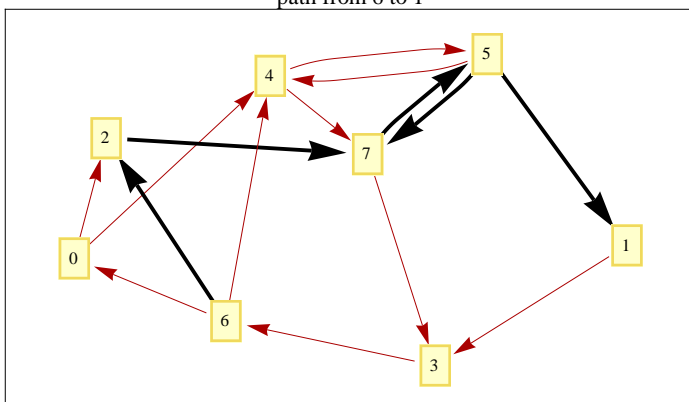
path from 6 to 2

Out[899]=
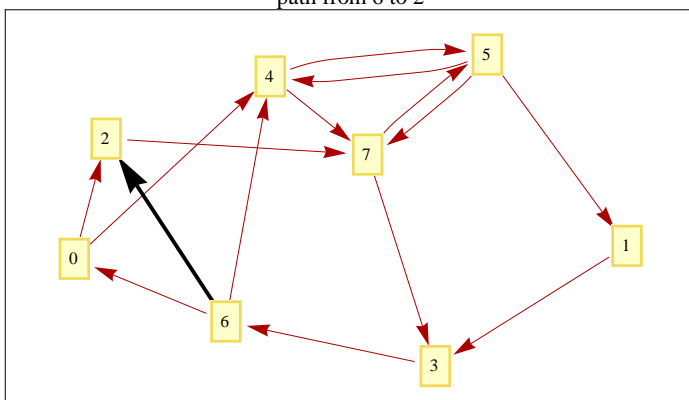
path from 6 to 3

Out[905]=
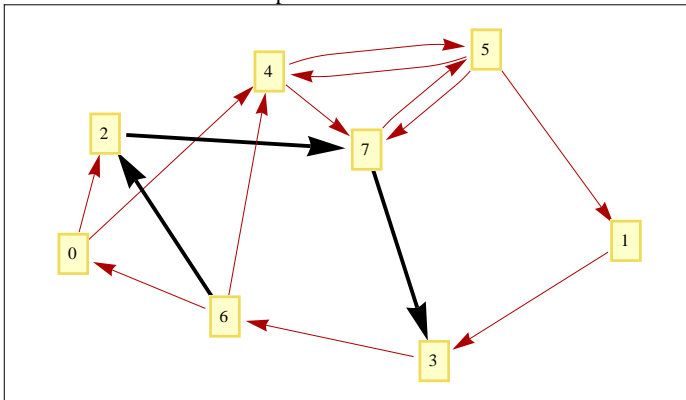
path from 6 to 4

Out[911]=
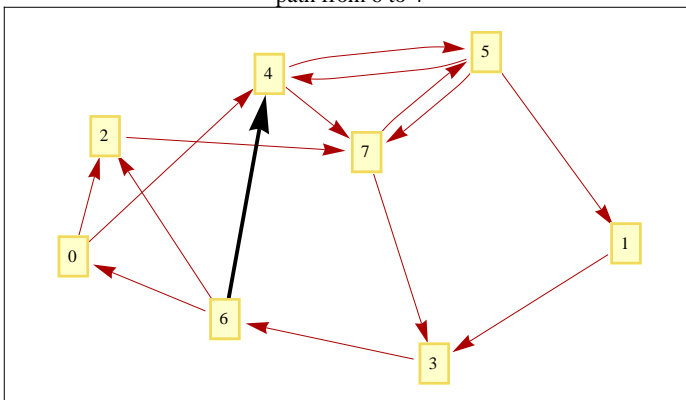
path from 6 to 5

Out[917]=
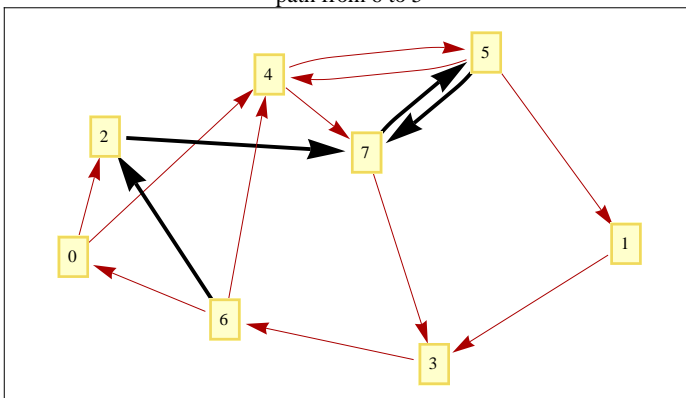
Out[923]=

path from 6 to 6
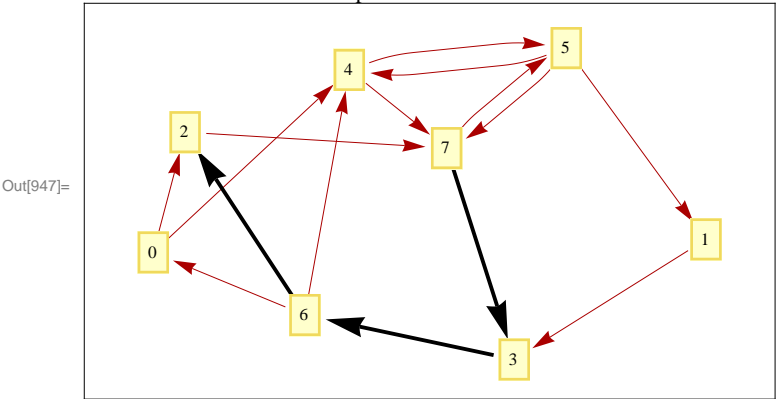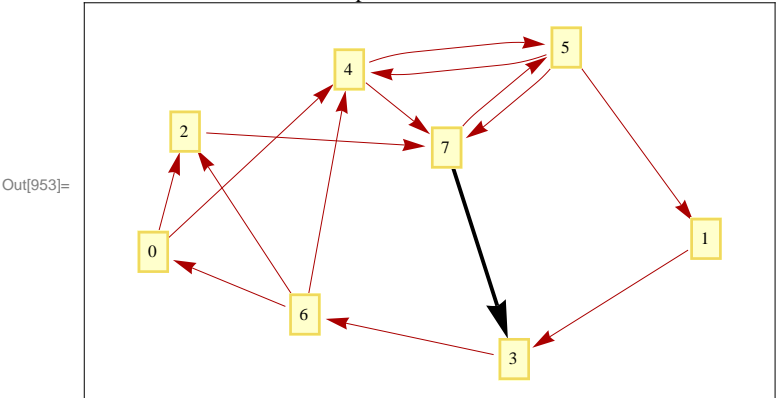

Out[929]=

path from 6 to 7

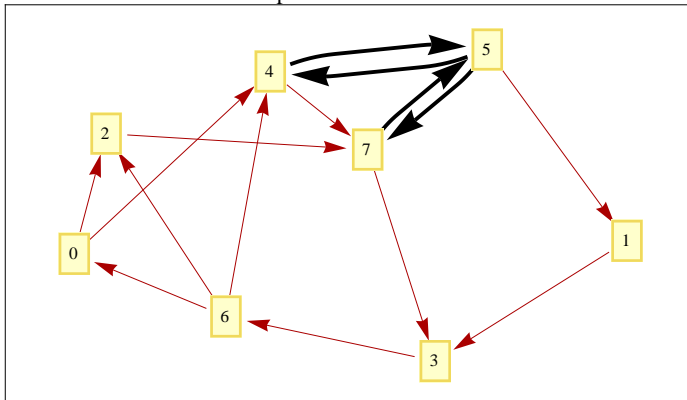Out[935]=

path from 7 to 0

path from 7 to 1

Out[941]=

path from 7 to 2

Out[947]=

path from 7 to 3

Out[953]=

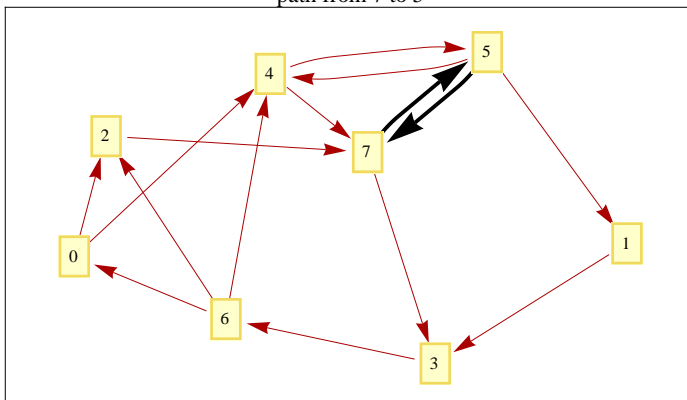path from 7 to 4

path from 7 to 5

path from 7 to 6

path from 7 to 7

Out[977]=