Міністерство освіти і науки України Національний технічний університет України «Київський політехнічний інститут імені Ігоря Сікорського» Факультет інформатики та обчислювальної техніки Кафедра обчислювальної техніки

Лабораторна робота №4

з дисципліни «Алгоритми і структури даних»

Виконав: Перевірив:

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Задача:

Потрібно зобразити і обчислити різноманітні операції про графи Мій сід був 4108. На жаль, у JavaScript немає вбудованого генератора сідом, тому я зробив простий генератор

Текст програми:

```
JS
const canvasD = document.getElementById('canvasDirected');
const canvasU = document.getElementById('canvasUndirected');
const canvasM = document.getElementById('canvasModified');
const canvasC = document.getElementById('canvasCondenced');
const n1 = 4;
const n2 = 1;
const n3 = 0;
const n4 = 8;
const k1 = 1 - (n3 * 0.01) - (n4 * 0.01) - 0.3;
const k2 = 1 - (n3 * 0.005) - (n4 * 0.005) - 0.27;
const nodeNumber = 10 + n3;
const nodeRadius = 15;
const nodes = [
   {x: 100, y: 100},
    {x: 300, y: 100},
    {x: 500, y: 100},
    {x: 700, y: 100},
    {x: 100, y: 300},
    {x: 400, y: 300},
    {x: 700, y: 300},
    {x: 100, y: 500},
    {x: 400, y: 500},
    {x: 700, y: 500},
const arraysEqual = (a, b) => {
   if (a.length !== b.length) return false;
    return a.every((val, i) => val === b[i]);
const randomizeArray = () => {
const result = [];
for (let i = 0; i < nodeNumber; i++) {</pre>
   const row = [];
    for (let j = 0; j < nodeNumber; j++) {
    row.push(Math.random() * 2);
    result.push(row);
} return result };
const rArray = randomizeArray();
const graphifyArray = (array, k) => {
    const result = [];
    for (let i = 0; i < nodeNumber; i++) {</pre>
        const row = [];
        for (let j = 0; j < nodeNumber; j++) {
            const value = array[i][j];
            const newValue = Math.floor(value * k);
            row.push(newValue);
        } result.push(row);
```

```
} return result;
const undirectArray = (array) => {
    const result = [];
    for (let i = 0; i < nodeNumber; i++) {</pre>
        const row = [];
       for (let j = 0; j < nodeNumber; j++) {</pre>
        row.push(Math.max(array[i][j], array[j][i]))
        } result.push(row);
    } return result;
const dArray = graphifyArray(rArray, k1);
const uArray = undirectArray(dArray);
const mArray = graphifyArray(rArray, k2);
console.log('Напрямлений граф:');
console.log(dArray);
console.log('Ненапрямлений граф:');
console.log(uArray);
console.log('Модифікований граф:');
console.log(mArray);
const drawCurve = (ctx, x1, y1, x2, y2, arrowed) => {
    // Коригуємо точки з урахуванням радіусу вершин
    const angle = Math.atan2(y2 - y1, x2 - x1);
    const adjustedX1 = x1 + 15 * Math.cos(angle);
    const adjustedY1 = y1 + 15 * Math.sin(angle);
    const adjustedX2 = x2 - 15 * Math.cos(angle);
    const adjustedY2 = y2 - 15 * Math.sin(angle);
    const midX = (adjustedX1 + adjustedX2) / 2;
    const midY = (adjustedY1 + adjustedY2) / 2; // Медіана
    const dx = Math.abs(adjustedX2 - adjustedX1);
    const dy = Math.abs(adjustedY2 - adjustedY1);
    const len = Math.sqrt(dx*dx + dy*dy);
    const nx = -dy/len;
    const ny = dx/len; // Вектор перпендикуляра до лінії
    const offset = len * 0.2;
    const controlX = midX + nx * offset;
    const controlY = midY + ny * offset; // Зміщення для кривизни
    ctx.beginPath();
    ctx.moveTo(adjustedX1, adjustedY1);
    ctx.quadraticCurveTo(controlX, controlY, adjustedX2, adjustedY2);
    ctx.strokeStyle = '#666';
    ctx.lineWidth = 2;
    ctx.stroke();
    if (arrowed) {
    const arrowAngle = Math.atan2(adjustedY2 - controlY, adjustedX2 - controlX);
    ctx.beginPath();
    ctx.moveTo(adjustedX2, adjustedY2);
    ctx.lineTo(
        adjustedX2 - 10 * Math.cos(arrowAngle - Math.PI/6),
        adjustedY2 - 10 * Math.sin(arrowAngle - Math.PI/6)
    );
    ctx.lineTo(
        adjustedX2 - 10 * Math.cos(arrowAngle + Math.PI/6),
        adjustedY2 - 10 * Math.sin(arrowAngle + Math.PI/6)
    );
```

```
ctx.closePath();
    ctx.fillStyle = '#666';
    ctx.fill();}
};
const drawLoop = (ctx, x, y) => {
    ctx.beginPath();
    ctx.arc(x, y - 15, 25, Math.PI/2, Math.PI*2.5);
    ctx.strokeStyle = '#666';
    ctx.lineWidth = 2;
    ctx.stroke();
};
const drawGraph = (canvas, nodes, matrix, directed) => {
const ctx = canvas.getContext('2d');
matrix.forEach((row, i) => {
    row.forEach((value, j) => {
        if (value === 1) {
            const node1 = nodes[i];
            const node2 = nodes[j];
            if (i === j) {drawLoop(ctx, node1.x, node1.y)}
            else {drawCurve(ctx, node1.x, node1.y, node2.x, node2.y, directed)}
        };
    });
  });
 nodes.forEach((node, id) => {
    ctx.beginPath();
    ctx.arc(node.x, node.y, 15, 0, Math.PI * 2);
    ctx.fillStyle = '#f0f0f0';
    ctx.fill();
    ctx.fillStyle = '#000';
    ctx.font = '14px Arial';
    ctx.textAlign = 'center';
    ctx.textBaseline = 'middle';
    ctx.fillText(id, node.x, node.y);
  });
drawGraph(canvasD, nodes, dArray, true);
drawGraph(canvasU, nodes, uArray, false);
drawGraph(canvasM, nodes, mArray, true);
const secondStep = (darray, uarray) => {
    console.log('Kpok 2:');
    console.log('Степені вершин ненапрямленого графа:');
    const degrees = [];
    let regularGraph = true;
    for (let i = 0; i < nodeNumber; i++) {</pre>
        let sum = uarray[i][i];
        for (let j = 0; j < nodeNumber; j++) {
            sum += uarray[i][j];
        } console.log('Степінь вершини ' + i + ': ' + sum);
        if (uarray[i][i] === 1) {sum -= 2}
        degrees.push(sum);
    console.log('Степені вершин направленого графа:');
    for (let i = 0; i < nodeNumber; i++) {</pre>
        let degree = {вхід: 0, вихід: 0, всього: 0};
        for (let j = 0; j < nodeNumber; j++) {
```

```
if (darray[i][j] === 1) degree.вихід++
            if (darray[j][i] === 1) degree.вхід++
        degree.всього = degree.вхід + degree.вихід;
        console.log('Степінь вершини ' + i + ": " + degree.вхід + '(вхід) ' +
degree.вихід + '(вихід) ' + degree.всього + '(всього)');
    degrees.forEach((degree, i) => {
        if (degree !== degrees[0]) regularGraph = false;
        if (degree === 0) console.log('Вершина ' + i + ' ізольована');
        if (degree === 1) console.log('Вершина ' + i + ' висяча');
    });
    if (regularGraph) console.log('Граф є регулярним зі степенем' + degrees[0]);
    else console.log('Граф не \epsilon регулярним');
secondStep(dArray, uArray);
const fourthStep = (array) => {
    console.log('Степені вершин модифікованого графа:');
    for (let i = 0; i < nodeNumber; i++) {</pre>
        let degree = {вхід: 0, вихід: 0};
        for (let j = 0; j < nodeNumber; j++) {
            if (array[i][j] === 1) degree.вихід++
            if (array[j][i] === 1) degree.вхід++
        console.log('Степінь вершини ' + i + ": " + degree.вхід + '(вхід) ' +
degree.вихід + '(вихід) ');
    let connections = new Set();
    let twoWays = new Set();
    let threeWays = new Set();
    for (let i = 0; i < nodeNumber; i++) {</pre>
        for (let j = 0; j < nodeNumber; j++) {</pre>
            if (array[i][j] === 1) connections.add(JSON.stringify([i, j]));
        }}
    console.log("Усі шляхи довжини 2 і 3:")
    connections.forEach((cjson) => {
        const c = JSON.parse(cjson);
        for (let i = 0; i < nodeNumber; i++) {</pre>
            if (array[c[1]][i] === 1) \{ twoWays.add(JSON.stringify([c[0], c[1], i])) \}
        }});
    twoWays.forEach((twjson) => {
        console.log(twjson);
        const tw = JSON.parse(twjson);
        for (let i = 0; i < nodeNumber; i++) {</pre>
            if (array[tw[2]][i] === 1) { threeWays.add(JSON.stringify([tw[0], tw[1],
tw[2], i]))}
    threeWays.forEach((trjson) => {console.log(trjson)});
    let reachMatrix = JSON.parse(JSON.stringify(array));
    let rMc = true;
    console.log("Матриця досяжності:");
    while (rMc) {
        rMc = false;
        for (let i = 0; i < nodeNumber; i++) {</pre>
            for (let j = 0; j < nodeNumber; j++) {</pre>
                if (reachMatrix[i][j] === 1) {
                    for (let q = 0; q < nodeNumber; q++) {</pre>
```

```
if (reachMatrix[j][q] === 1 && reachMatrix[i][q] === 0) {
                            reachMatrix[i][q] = 1;
                            rMc = true}}}}};
    console.log(reachMatrix);
    console.log("Матриця сильної зв'язності:");
    const conMatrix = [];
    for (let i = 0; i < nodeNumber; i++) {</pre>
        const row = [];
        for (let j = 0; j < nodeNumber; j++) {
            if (reachMatrix[i][j] === reachMatrix[j][i] && reachMatrix[i][j] === 1)
row.push(1);
            else row.push(0);
        conMatrix.push(row);
    };
    console.log(conMatrix);
    console.log("Перелік КСЗ:")
    let groups = [];
    const visits = new Array(nodeNumber).fill(false);
    for (let i = 0; i < nodeNumber; i++) {</pre>
        if (!visits[i]) {
        const group = [];
        for (let j = 0; j < nodeNumber; j++) {
            if (conMatrix[i][j] === 1 || j === i) {
                group.push(j);
                visits[j] = true}};
        groups.push(group)}};
    console.log(groups);
    const nodeCNumber = groups.length;
    const nodesC = new Array(nodeCNumber);
    const matrixC = [];
    for (let i = 0; i < nodeCNumber; i++) {</pre>
    nodesC[i] = nodes[i];
    const rowC = [];
    for (let j = 0; j < nodeCNumber; j++) {
        if (i === j) \{rowC.push(0)\}
        else {
        let whatPush = 0;
        const groupi = groups[i];
        const groupj = groups[j];
        groupi.forEach((nodei) => {
        groupj.forEach((nodej) => {
            if (array[nodei][nodej] === 1) {whatPush = 1}})})
        rowC.push(whatPush);
    }}
    matrixC.push(rowC);
    drawGraph(canvasC, nodesC, matrixC, true);
fourthStep(mArray);
HTML
<!DOCTYPE html>
<html>
<head>
  <title>Лабораторна 4</title>
  <style>
   canvas { border: 1px solid #000000; }
```

```
</head>
</body>
  <canvas id="canvasDirected" width="800" height="600"></canvas>
        <canvas id="canvasUndirected" width="800" height="600"></canvas>
        <canvas id="canvasModified" width="800" height="600"></canvas>
        <canvas id="canvasCondenced" width="800" height="600"></canvas>
        <canvas id="canvasCondenced" width="800" height="600"></canvas>
        <script src="main.js"></script>
</body>
</html>
```

Тестування програми:

Пункт 1:

```
Напрямлений граф:
(10) [Array(10), Array(10), Array(10), Arr
  y(10), Array(10), Array(10), Array(10), Ar
  ▶ 0: (10) [0, 0, 0, 1, 0, 0, 0, 0, 1, 0]
  ▶ 1: (10) [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
  ▶ 2: (10) [0, 1, 0, 0, 0, 0, 0, 0, 0, 0]
  ▶ 3: (10) [0, 0, 0, 1, 0, 0, 0, 0, 0, 0]
  ▶ 4: (10) [0, 0, 1, 0, 0, 0, 0, 1, 0, 0]
  ▶ 5: (10) [0, 0, 1, 0, 0, 0, 1, 0, 0, 0]
  ▶ 6: (10) [0, 0, 0, 1, 0, 0, 1, 0, 0, 0]
   ▶ 7: (10) [0, 0, 0, 0, 0, 0, 0, 0, 0]
  ▶ 8: (10) [0, 0, 0, 0, 0, 0, 1, 0, 0, 0]
  ▶ 9: (10) [0, 0, 1, 0, 1, 0, 0, 0, 1, 1]
    length: 10
  ▶ [[Prototype]]: Array(0)
Ненапрямлений граф:
```

```
(10) [Array(10), Array(10), Array(10), Arr
y(10), Array(10), Array(10), Array(10), Ar

▶ 0: (10) [0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0]

▶ 1: (10) [0, 0, 1, 0, 0, 0, 0, 0, 0, 0]

▶ 2: (10) [0, 1, 0, 0, 1, 1, 0, 0, 0, 0, 1]

▶ 3: (10) [1, 0, 0, 1, 0, 0, 1, 0, 0, 0]

▶ 4: (10) [0, 0, 1, 0, 0, 0, 0, 1, 0, 0]

▶ 5: (10) [0, 0, 1, 0, 0, 0, 1, 0, 0, 0]

▶ 6: (10) [0, 0, 0, 1, 0, 1, 1, 0, 1, 0]

▶ 7: (10) [0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1]

▶ 8: (10) [1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1]

▶ 9: (10) [0, 0, 1, 0, 1, 0, 0, 0, 1, 1]

Length: 10
```

Пункт 2:

```
Крок 2:
Степені вершин ненапрямленого графа:
Степінь вершини 0: 2
Степінь вершини 1: 1
Степінь вершини 2: 4
Степінь вершини 3: 4
Степінь вершини 4: 3
Степінь вершини 5: 2
Степінь вершини 6: 5
Степінь вершини 7: 1
Степінь вершини 8: 3
Степінь вершини 9: 5
Степені вершин направленого графа:
Степінь вершини 0: 0(вхід) 2(вихід) 2(всього)
Степінь вершини 1: 1(вхід) 0(вихід) 1(всього)
Степінь вершини 2: 3(вхід) 1(вихід) 4(всього)
Степінь вершини 3: 3(вхід) 1(вихід) 4(всього)
Степінь вершини 4: 1(вхід) 2(вихід) 3(всього)
Степінь вершини 5: 0(вхід) 2(вихід) 2(всього)
Степінь вершини 6: 3(вхід) 2(вихід) 5(всього)
Степінь вершини 7: 1(вхід) 0(вихід) 1(всього)
Степінь вершини 8: 2(вхід) 1(вихід) 3(всього)
Степінь вершини 9: 1(вхід) 4(вихід) 5(всього)
Вершина 1 висяча
Вершина 7 висяча
Граф не є регулярним
```

Пункт 3:

Модифікований граф:

```
(10) [Array(10), Array(10), Array(10), Arr
y(10), Array(10), Array(10), Array(10), Ar

→ 0: (10) [0, 0, 0, 1, 0, 0, 0, 0, 1, 0]

→ 1: (10) [0, 0, 0, 0, 0, 0, 1, 0, 0, 0]

→ 2: (10) [0, 1, 1, 0, 0, 0, 1, 0, 0, 0]

→ 3: (10) [0, 0, 0, 1, 1, 0, 1, 0, 0, 0]

→ 4: (10) [0, 0, 1, 0, 0, 0, 1, 0, 0, 0]

→ 5: (10) [0, 0, 1, 0, 0, 0, 1, 0, 0, 0]

→ 6: (10) [0, 0, 1, 1, 0, 1, 1, 0, 0, 0]

→ 7: (10) [0, 0, 0, 1, 1, 0, 1, 0, 1, 0]

→ 8: (10) [0, 0, 0, 0, 1, 0, 1, 0, 0, 0]

→ 9: (10) [0, 0, 1, 0, 1, 0, 0, 0, 1, 1]

length: 10
```

Пункт 4:

```
Степені вершин модифікованого графа:
Степінь вершини 0: 0(вхід) 2(вихід)
Степінь вершини 1: 1(вхід) 1(вихід)
Степінь вершини 2: 5(вхід) 3(вихід)
Степінь вершини 3: 4(вхід) 3(вихід)
Степінь вершини 4: 4(вхід) 2(вихід)
Степінь вершини 5: 1(вхід) 2(вихід)
Степінь вершини 6: 7(вхід) 4(вихід)
Степінь вершини 7: 1(вхід) 4(вихід)
Степінь вершини 8: 3(вхід) 2(вихід)
Степінь вершини 9: 1(вхід) 4(вихід)
```

Усі шляхи довжини 2 і 3:

main.js:204 [0,3,3]

main.js:204 [0,3,4]

main.js:204 [0,3,6]

main.js:204 [0,8,4]

main.js:204 [0,8,6]

main.js:204 [1,6,2]

main.js:204 [1,6,3]

main.js:204 [1,6,5]

main.js:204 [1,6,6]

main.js:204 [2,1,6]

main.js:204 [2,2,1]

main.js:204 [2,2,2]

main.js:204 [2,2,6]

main.js:204 [2,6,2]

main.js:204 [2,6,3]

main.js:204 [2,6,5]

main.js:204 [2,6,6]

main.js:204 [3,3,3]

main.js:204 [3,3,4]

main.js:204 [3,3,6]

main.js:204 [3,4,2]

main.js:204 [3,4,7]

main.js:204 [3,6,2]

main.js:204 [3,6,3]

main.js:204 [3,6,5]

main.js:204 [3,6,6]
main.js:204 [4,2,1]
main.js:204 [4,2,2]
main.js:204 [4,2,6]
main.js:204 [4,7,3]
main.js:204 [4,7,4]
main.js:204 [4,7,6]
main.js:204 [4,7,8]
main.js:204 [5,2,1]
main.js:204 [5,2,2]
main.js:204 [5,2,6]
main.js:204 [5,6,2]
main.js:204 [5,6,3]
main.js:204 [5,6,5]
main.js:204 [5,6,6]
main.js:204 [6,2,1]
main.js:204 [6,2,2]
main.js:204 [6,2,6]
main.js:204 [6,3,3]
main.js:204 [6,3,4]
main.js:204 [6,3,6]
main.js:204 [6,5,2]
main.js:204 [6,5,6]
main.js:204 [6,6,2]
main.js:204 [6,6,3]
main.js:204 [6,6,5]
main.js:204 [6,6,6]
main.js:204 [7,3,3]
main.js:204 [7,3,4]
main.js:204 [7,3,6]
main.js:204 [7,4,2]
main.js:204 [7,4,7]
main.js:204 [7,6,2]
main.js:204 [7,6,3]
main.js:204 [7,6,5]
main.js:204 [7,6,6]
main.js:204 [7,8,4]

main.js:204 [7,8,6]
main.js:204 [8,4,2]
main.js:204 [8,4,7]
main.js:204 [8,6,2]
main.js:204 [8,6,3]
main.js:204 [8,6,5]
main.js:204 [8,6,6]
main.js:204 [9,2,1]
main.js:204 [9,2,2]
main.js:204 [9,2,6]
main.js:204 [9,4,2]
main.js:204 [9,4,7]
main.js:204 [9,8,4]
main.js:204 [9,8,6]
main.js:204 [9,9,2]
main.js:204 [9,9,4]
main.js:204 [9,9,8]
main.js:204 [9,9,9]
main.js:209 [0,3,3,3]
main.js:209 [0,3,3,4]
main.js:209 [0,3,3,6]
main.js:209 [0,3,4,2]
main.js:209 [0,3,4,7]
main.js:209 [0,3,6,2]
main.js:209 [0,3,6,3]
main.js:209 [0,3,6,5]
main.js:209 [0,3,6,6]
main.js:209 [0,8,4,2]
main.js:209 [0,8,4,7]
main.js:209 [0,8,6,2]
main.js:209 [0,8,6,3]
main.js:209 [0,8,6,5]
main.js:209 [0,8,6,6]
main.js:209 [1,6,2,1]
main.js:209 [1,6,2,2]
main.js:209 [1,6,2,6]
main.js:209 [1,6,3,3]

main.js:209 [1,6,3,4]
main.js:209 [1,6,3,6]
main.js:209 [1,6,5,2]
main.js:209 [1,6,5,6]
main.js:209 [1,6,6,2]
main.js:209 [1,6,6,3]
main.js:209 [1,6,6,5]
main.js:209 [1,6,6,6]
main.js:209 [2,1,6,2]
main.js:209 [2,1,6,3]
main.js:209 [2,1,6,5]
main.js:209 [2,1,6,6]
main.js:209 [2,2,1,6]
main.js:209 [2,2,2,1]
main.js:209 [2,2,2,2]
main.js:209 [2,2,2,6]
main.js:209 [2,2,6,2]
main.js:209 [2,2,6,3]
main.js:209 [2,2,6,5]
main.js:209 [2,2,6,6]
main.js:209 [2,6,2,1]
main.js:209 [2,6,2,2]
main.js:209 [2,6,2,6]
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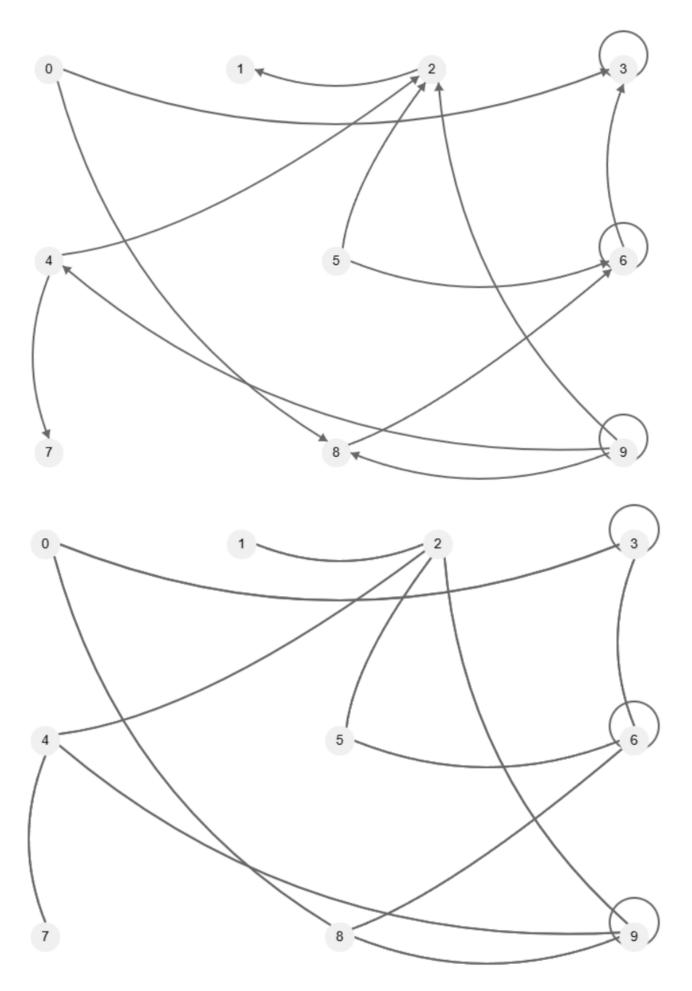
Матриця сильної зв'язності:

▶ [[Prototype]]: Array(0)

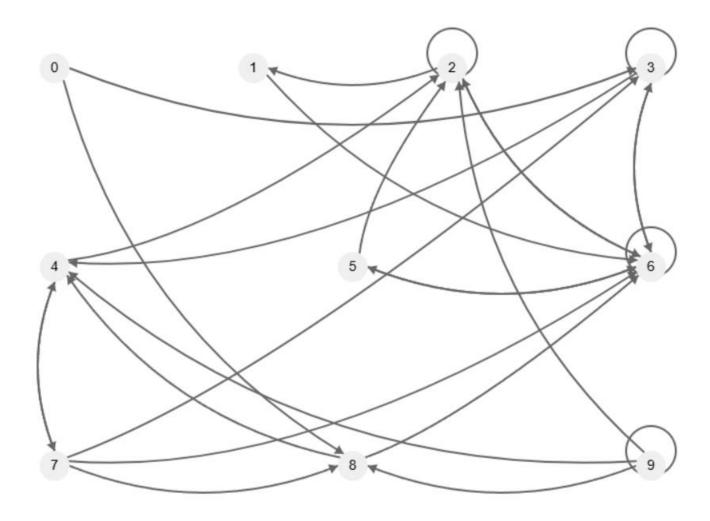
```
(10) [Array(10), Array(10), Array(10), Array(1
  y(10), Array(10), Array(10), Array(10), Array(
   ▶ 0: (10) [0, 0, 0, 0, 0, 0, 0, 0, 0]
   ▶ 1: (10) [0, 1, 1, 1, 1, 1, 1, 1, 0]
   ▶ 2: (10) [0, 1, 1, 1, 1, 1, 1, 1, 0]
   ▶ 3: (10) [0, 1, 1, 1, 1, 1, 1, 1, 0]
   ♦ 4: (10) [0, 1, 1, 1, 1, 1, 1, 1, 1, 0]
   ▶ 5: (10) [0, 1, 1, 1, 1, 1, 1, 1, 0]
   ▶ 6: (10) [0, 1, 1, 1, 1, 1, 1, 1, 0]
   ▶ 7: (10) [0, 1, 1, 1, 1, 1, 1, 1, 0]
   ▶ 8: (10) [0, 1, 1, 1, 1, 1, 1, 1, 0]
   ▶ 9: (10) [0, 0, 0, 0, 0, 0, 0, 0, 1]
     length: 10
Перелік КСЗ:
▼ (3) [Array(1), Array(8), Array(1)] i
  ▶ 0: [0]
   ▶ 1: (8) [1, 2, 3, 4, 5, 6, 7, 8]
   ▶ 2: [9]
```

Скриншоти:

Напрямлений і ненапрямлений графи:



Модифікований граф з іншим коефіцієнтом:



Граф конденсації:



Висновок:

Під час цієї лабораторної я вивчив багато чого. Перше, я повторив і вивчив багато нового з теорії графів, усі визначення що були використані у цій лабораторній. Друге, навчився робити з вкладеними списками і множинами у JS, як робити по ним обходи і створювати такі на льоту. Цікаво було дивитися на граф зі сторони матриці і робити з ним різні операції. На додачу, повторив різні базові речі - як написання функцій, переведення списків у стрічки і порівнювання їх таким чином (бо стандартно у JS порівнюються посилання), ітерації, елемент <canvas> у HTML і багато чого ще