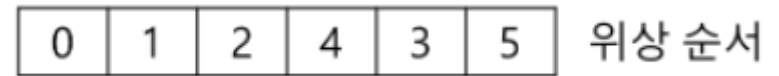
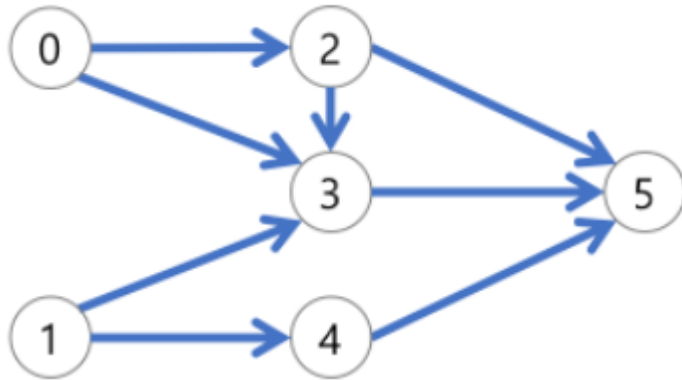


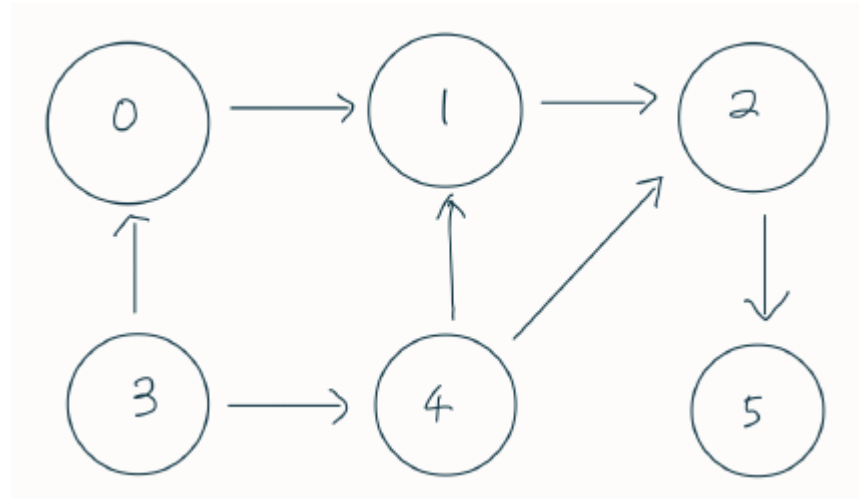
위상 정렬

14주차

위상 정렬이란?

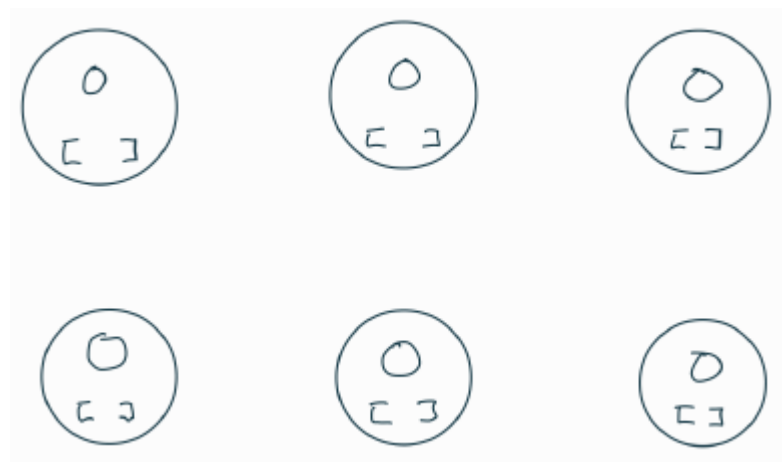
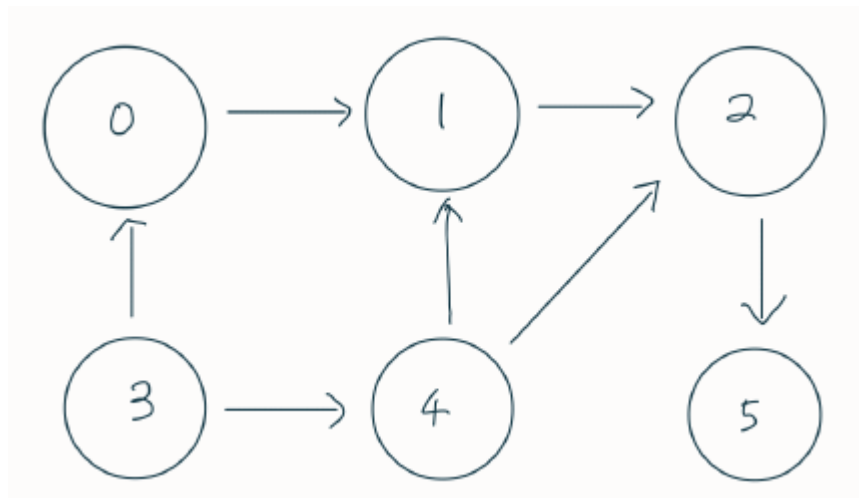
유형 그래프의 꼭짓점들을 변의 방향을 거스르지 않도록 정렬하는 것



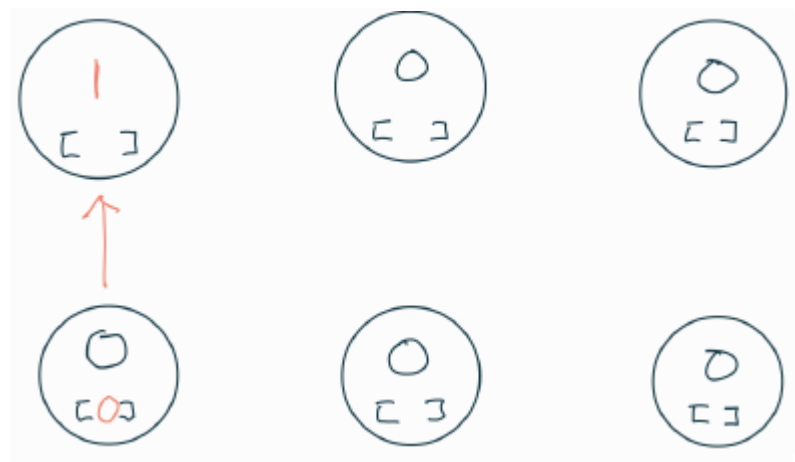
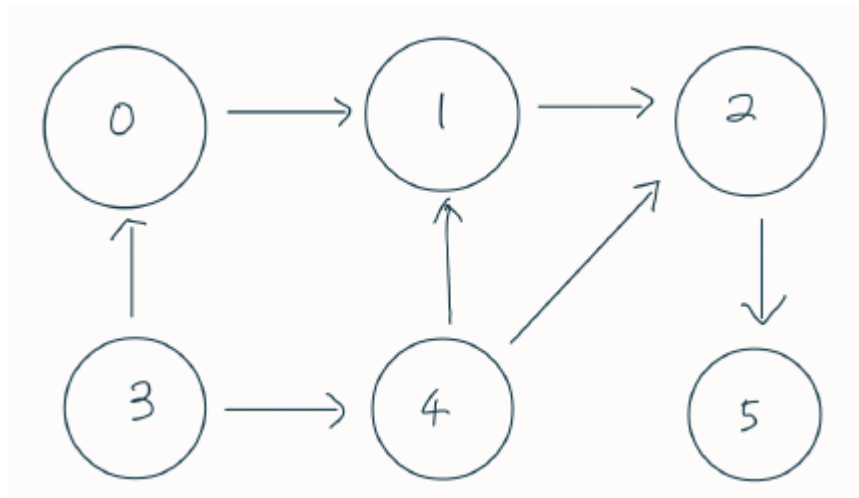


노드 0~5
간선 7개

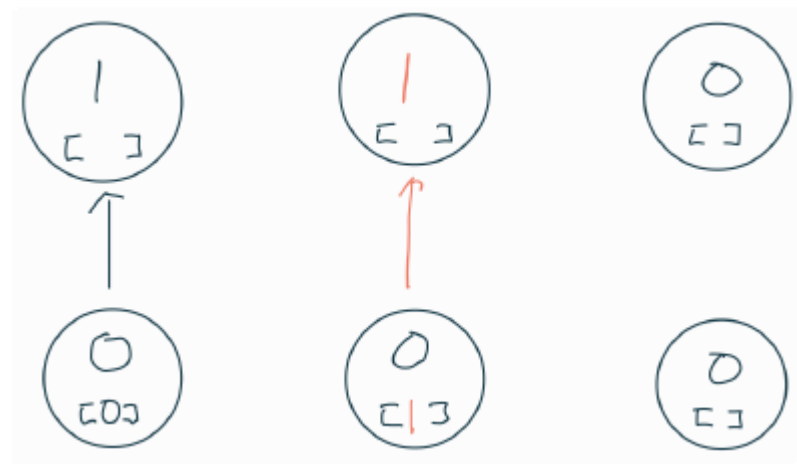
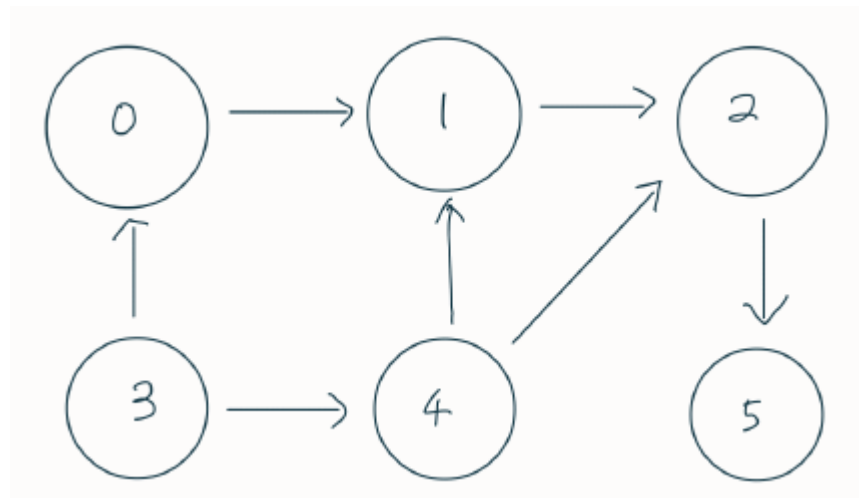
3 0
4 1
2 5
1 2
0 1
3 4
4 2



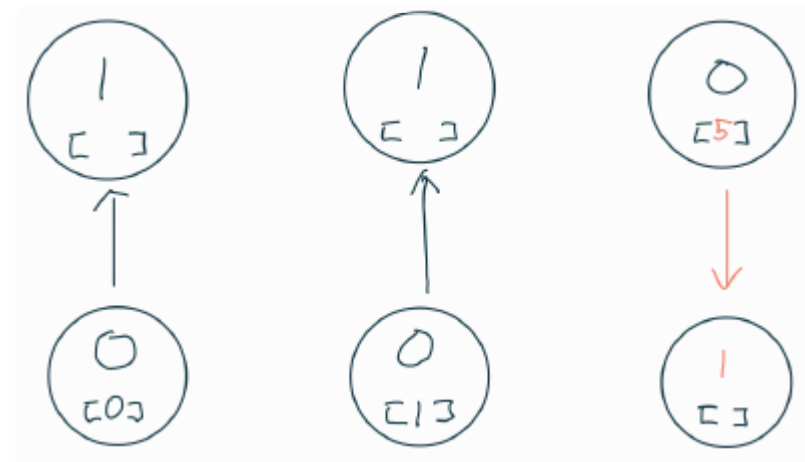
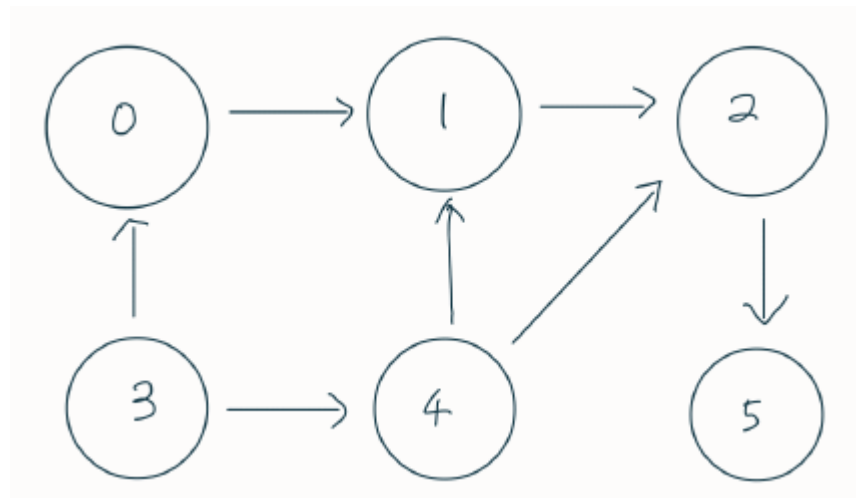
3 0
 4 1
 2 5
 1 2
 0 1
 3 4
 4 2



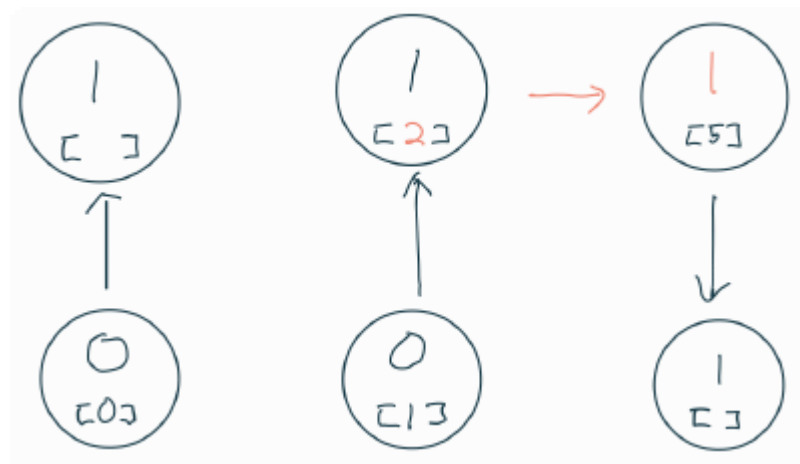
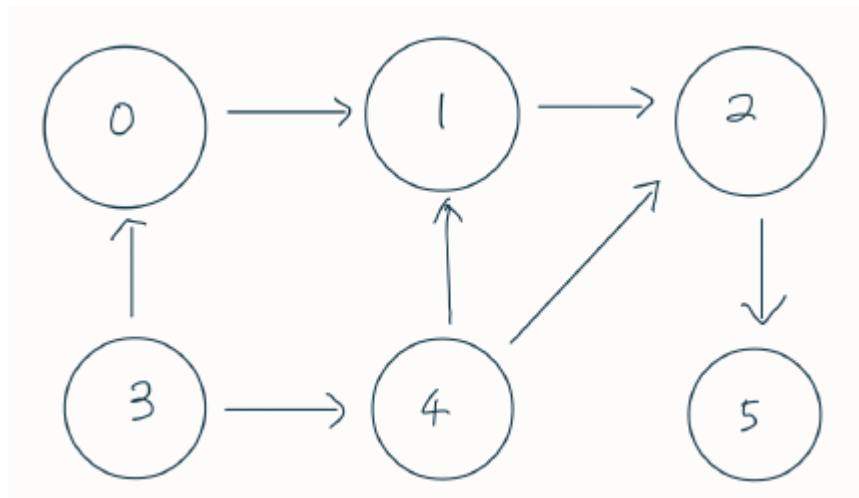
3 0
 4 1
 2 5
 1 2
 0 1
 3 4
 4 2



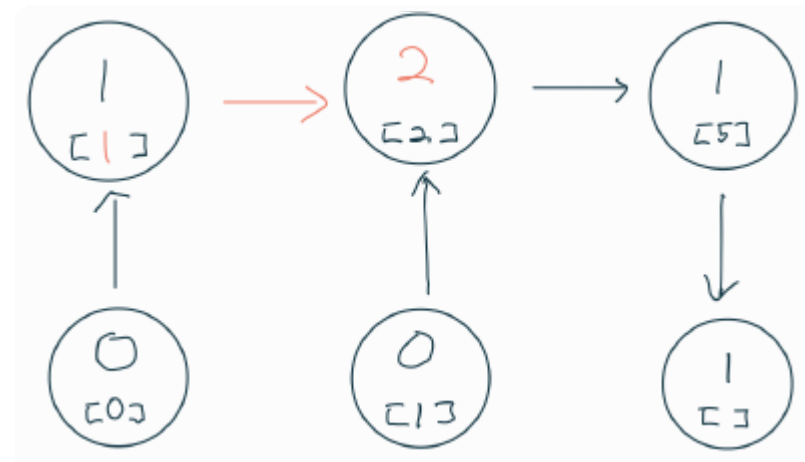
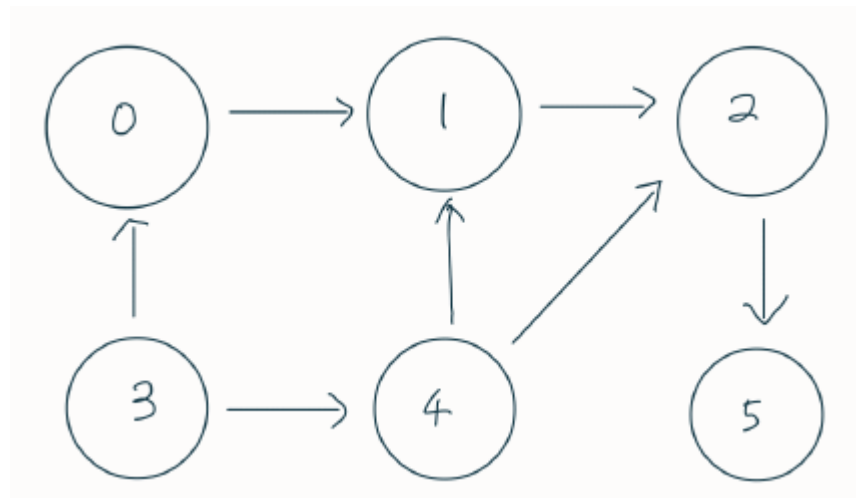
3 0
 4 1
 2 5
 1 2
 0 1
 3 4
 4 2



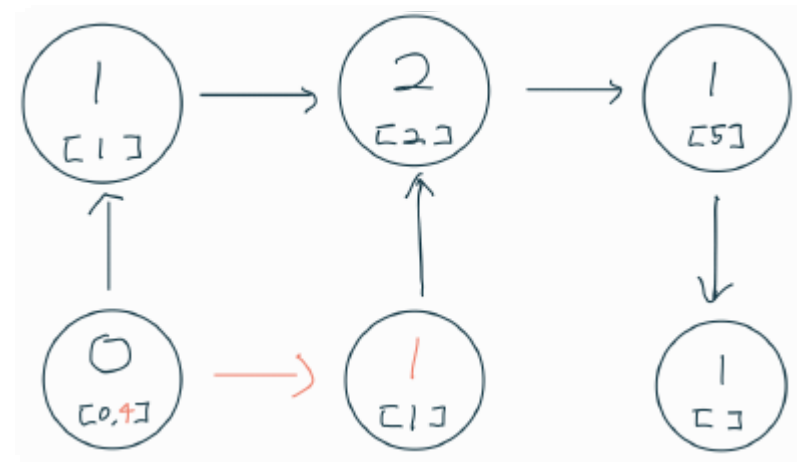
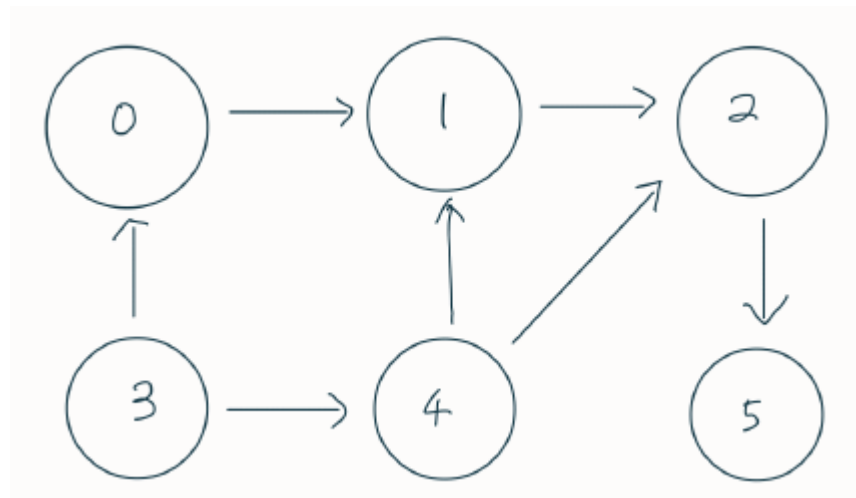
3 0
 4 1
 2 5
 1 2
 0 1
 3 4
 4 2



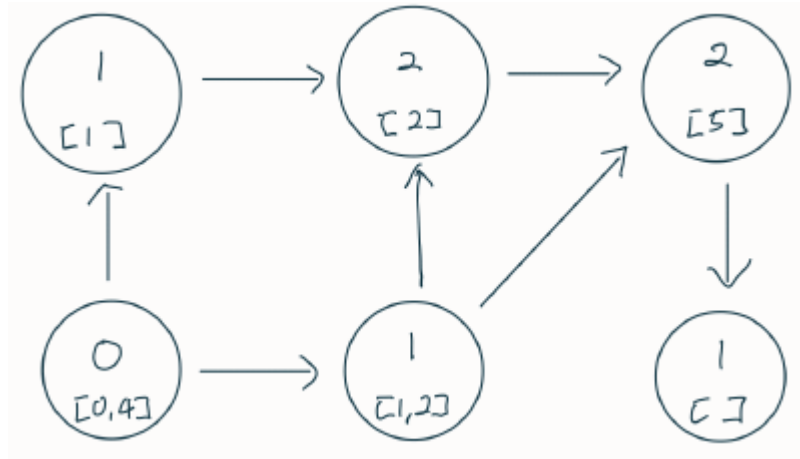
3 0
 4 1
 2 5
 1 2
 0 1
 3 4
 4 2

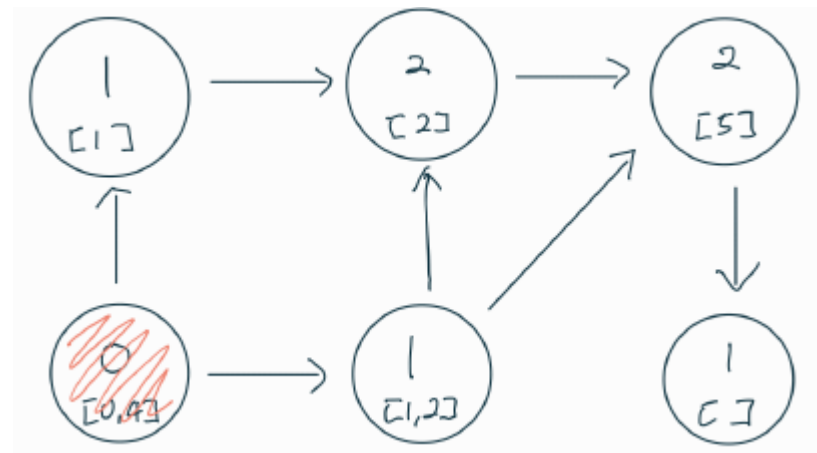
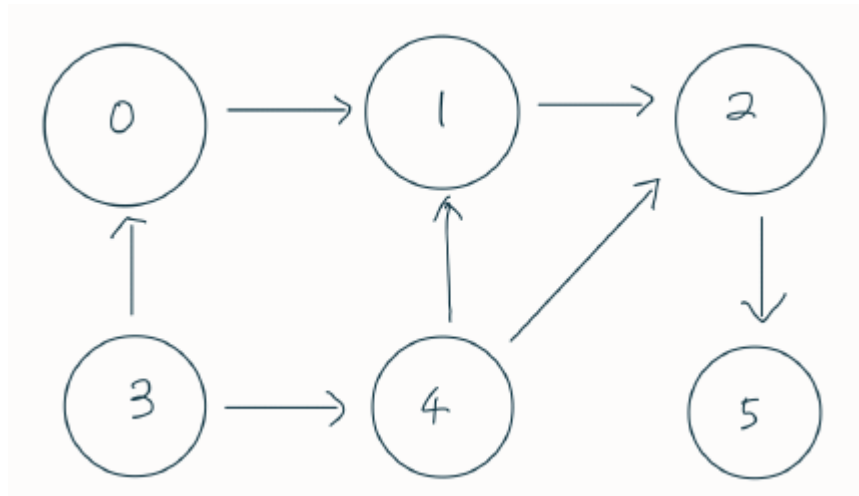


3 0
 4 1
 2 5
 1 2
 0 1
 3 4
 4 2



3 0
 4 1
 2 5
 1 2
 0 1
 3 4
 4 2

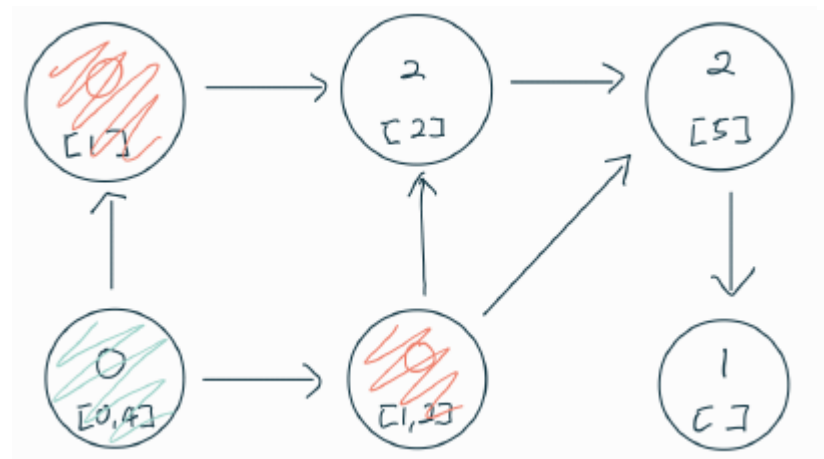
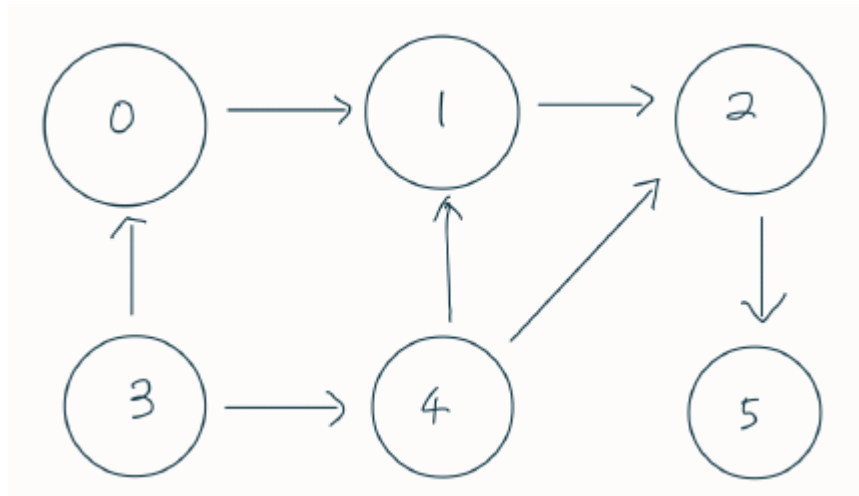




Queue

3

Answer

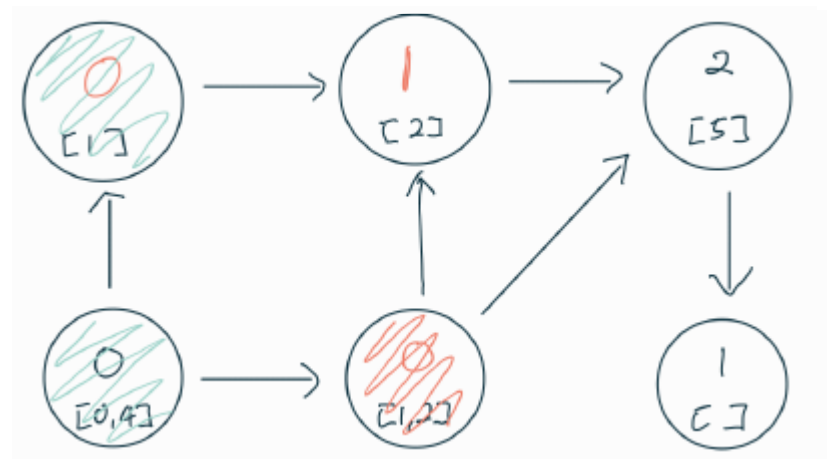
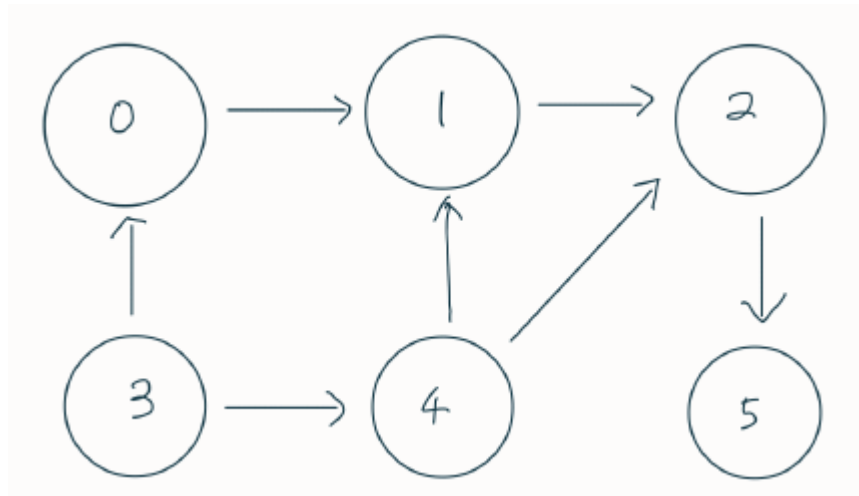


Queue

0 4

Answer

3

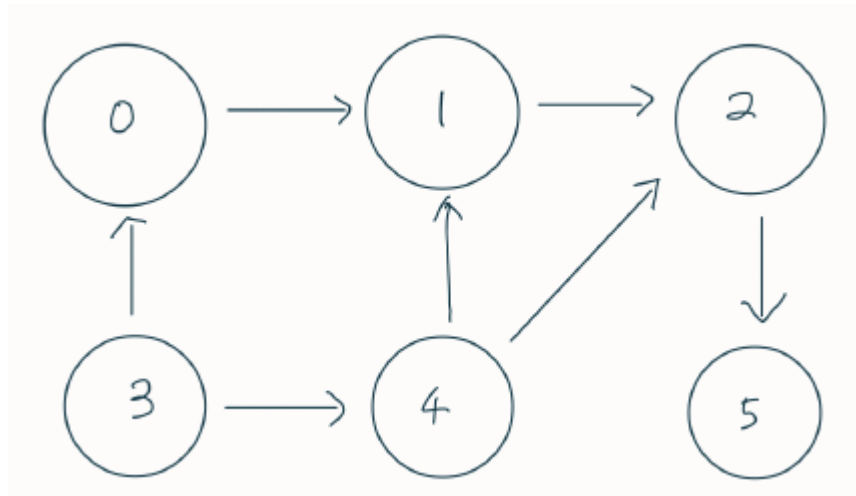


Queue

4

Answer

3 0

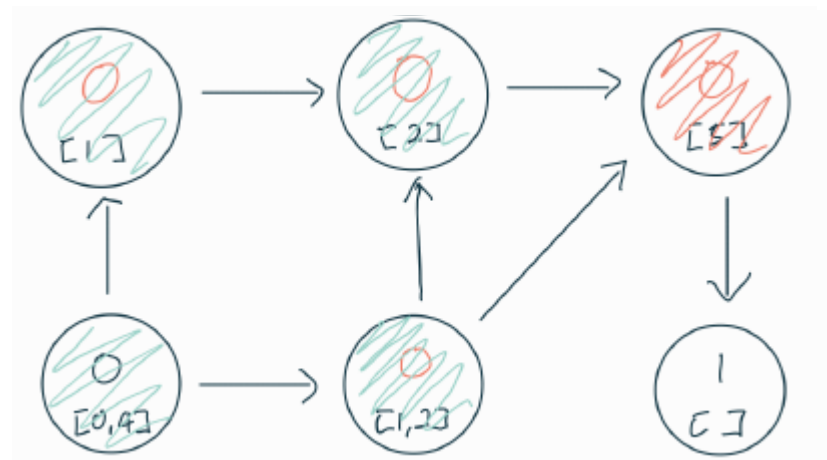
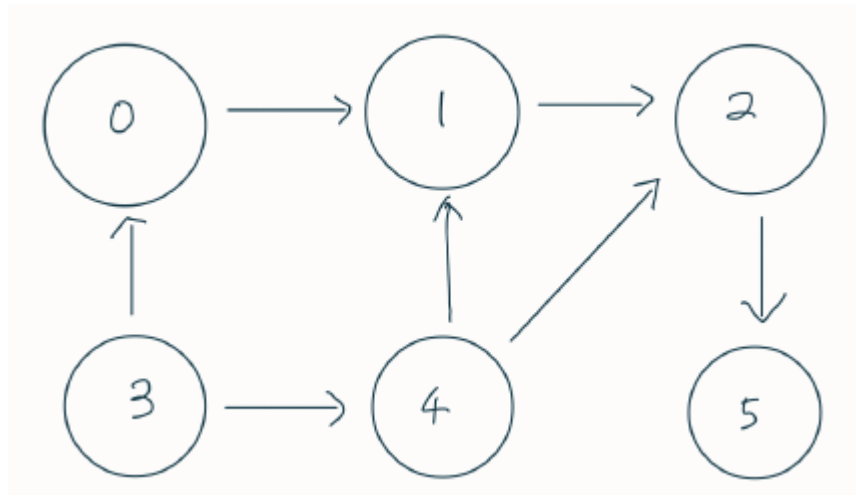


Queue

1

Answer

3 0 4

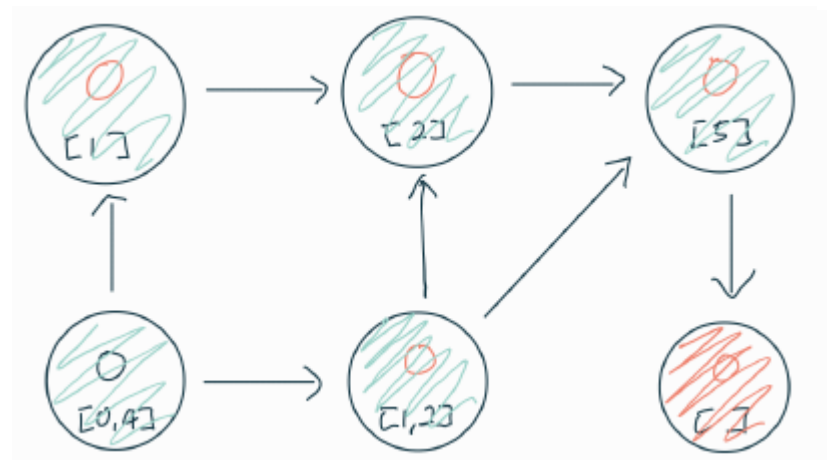
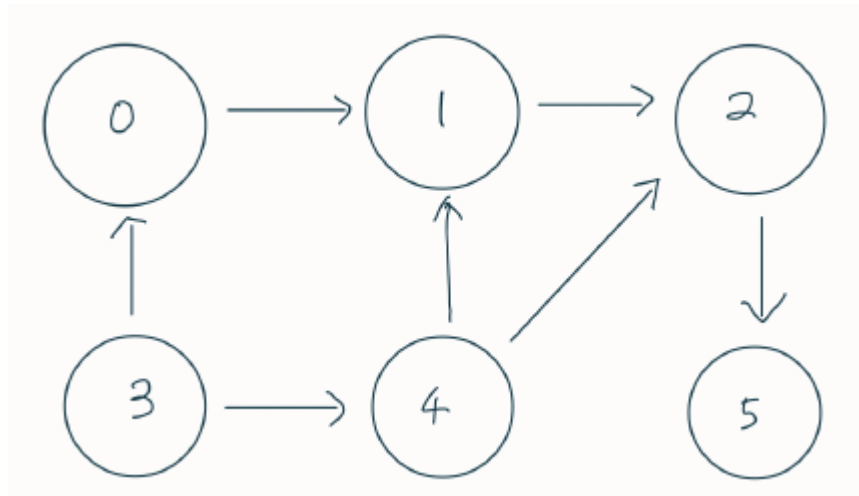


Queue

2

Answer

3 0 4 1



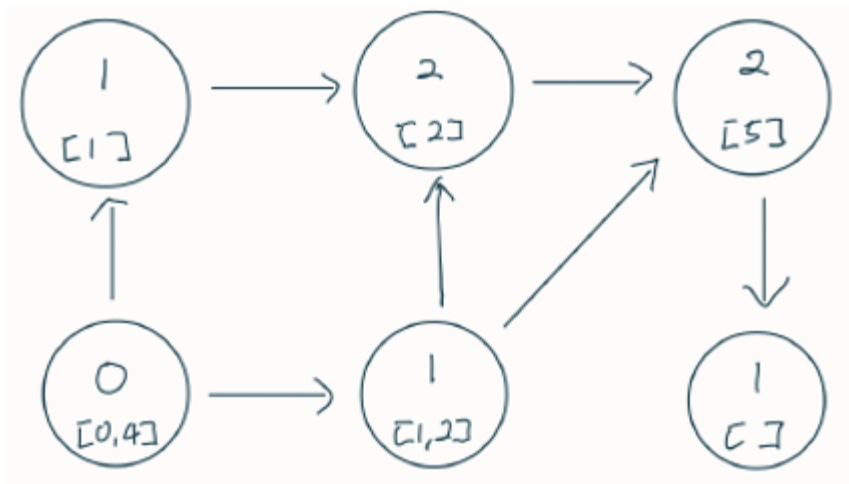
Queue

5

Answer

3 0 4 1 2

코드로 보기



```
class Node{
    int degree = 0;
    List<Integer> tree = new ArrayList<>();
}
```

노드 6개
간선 7개

3 0
4 1
2 5
1 2
0 1
3 4
4 2

```
int NodeCnt = Integer.parseInt(token.nextToken());
int edgeCnt = Integer.parseInt(token.nextToken());

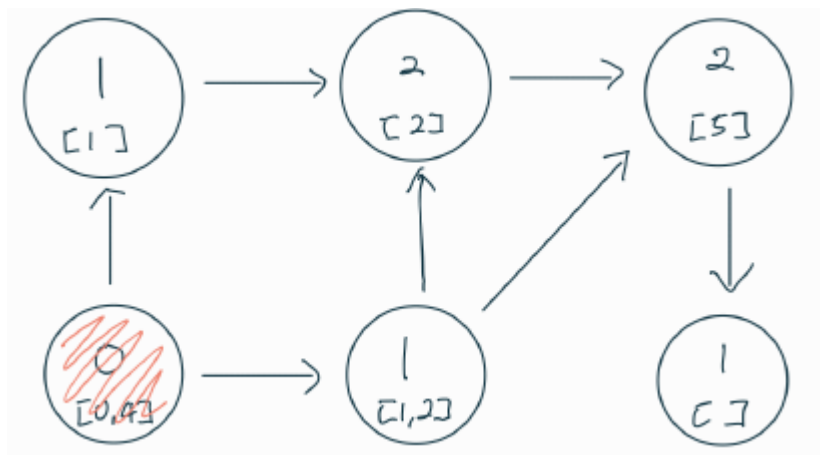
Node[] inputData = new Node[NodeCnt];

for(int i = 0; i < NodeCnt; i++){
    inputData[i] = new Node();
}

for(int i = 0; i < edgeCnt; i++){
    token = new StringTokenizer(re.readLine());
    int from = Integer.parseInt(token.nextToken());
    int to = Integer.parseInt(token.nextToken());

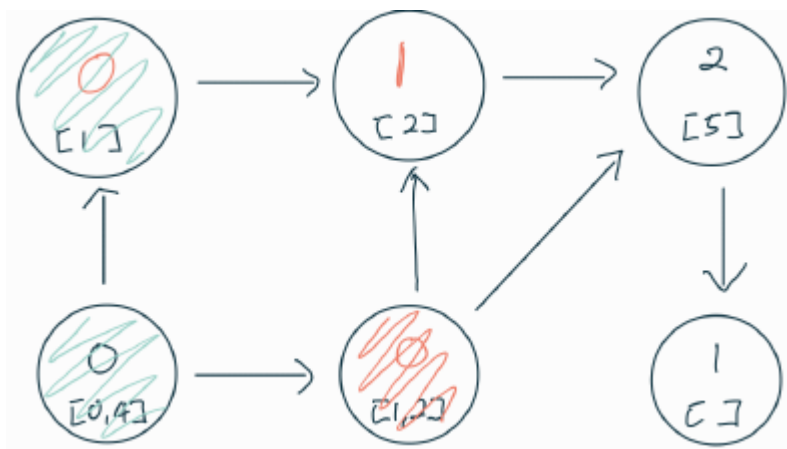
    inputData[from].tree.add(to);
    inputData[to].degree++;
}
```

코드로 보기



```
Queue<Integer> bfs = new ArrayDeque<>();
for(int i = 0; i < NodeCnt; i++){
    if(inputData[i].degree == 0){
        bfs.add(i);
    }
}
```

코드로 보기



```
StringBuilder ans = new StringBuilder();
while(!bfs.isEmpty()){
    int now = bfs.pop();
    ans.append(now).append(c: ' ');

    for(int i = 0, n = inputData[now].tree.size(); i < n; i++){
        int next = inputData[now].tree.get(i);
        if(--inputData[next].count == 0){
            bfs.add(next);
        }
    }
}
System.out.print(ans);
```



번외. webDRM 무력화하기




"화면 캡처 방지 프로그램이 설치됩니다"

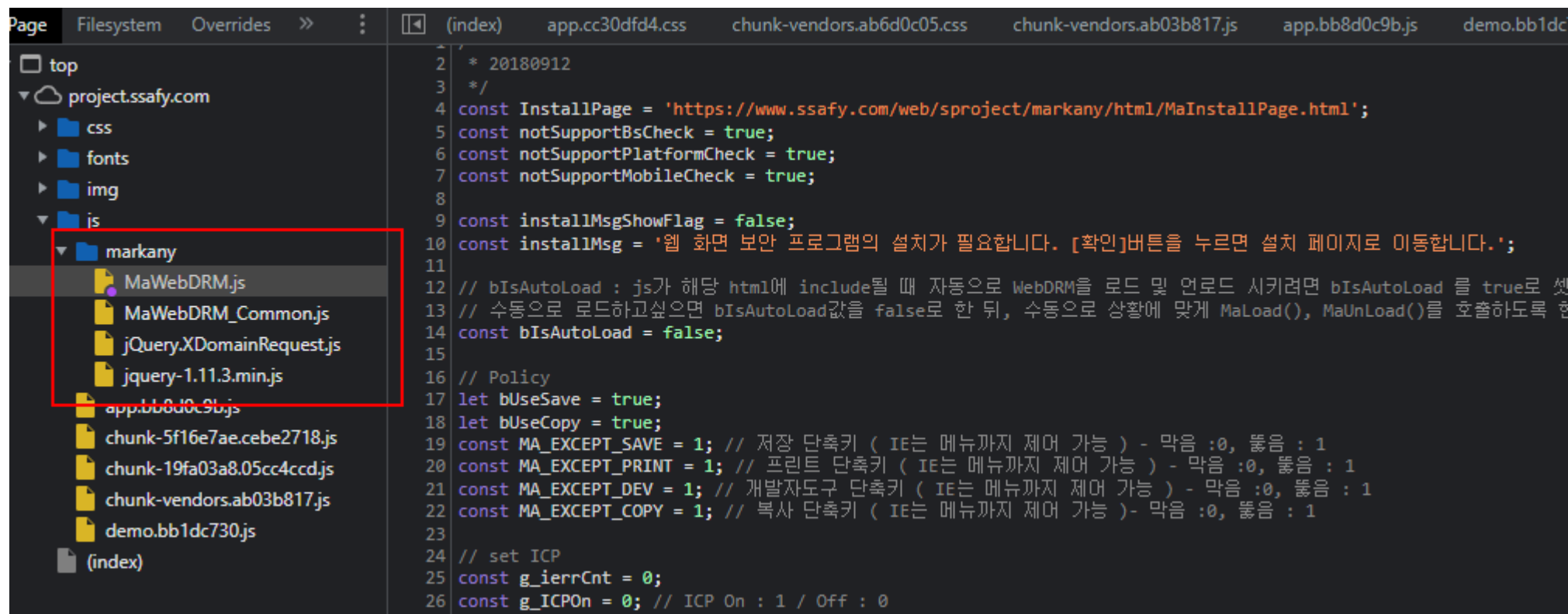
아래의 절차에 따라 수동설치를 진행해 주시기 바랍니다.

1. 아래의 다운로드 버튼을 클릭하여 PC에 수동설치 파일을 저장합니다.
2. 접속한 브라우저를 종료 후 다운로드 받은 파일을 실행하여 설치합니다.
3. 설치가 완료되면 브라우저를 재시작 합니다.

프로그램명	운영체제 지원범위	브라우저 지원범위	다운로드
WebDRM	Windows 7, 8, 8.1, 10	Internet Explorer [9.0 이상] Edge/Chrome[18 이상] Firefox[18 이상] / Opera[15 이상]	설치체크중

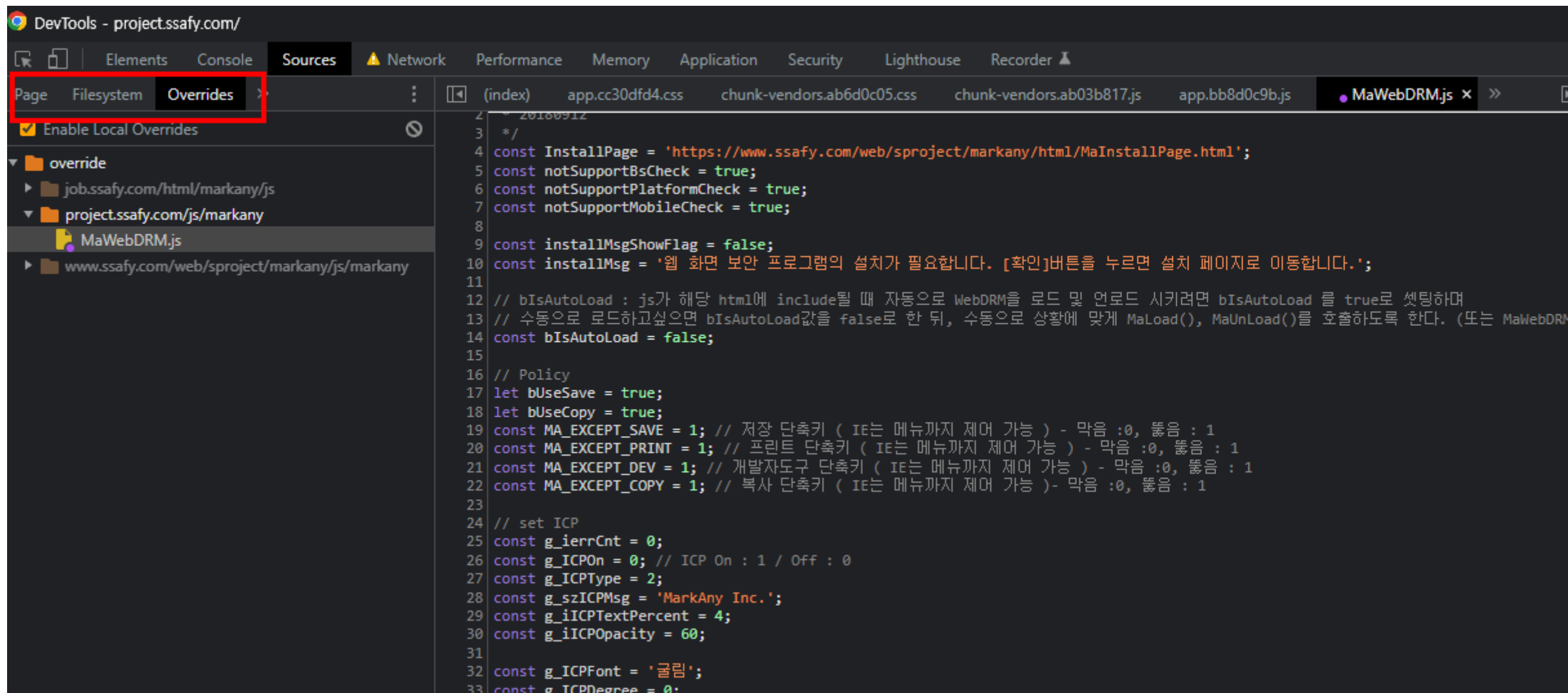
※ "설치체크중"에서 멈추어 있으신 분은 우측의 수동설치 버튼을 클릭해서 다운로드 해주세요.  Window용 다운로드

원리




```
function sendInstallPage() {
  // parent.document.location = getInstallPage();
  console.log("sendInstallPage");
}
```

원리



The screenshot shows the Chrome DevTools interface with the 'Sources' panel active. The 'Overrides' tab is selected and highlighted with a red box. Below it, the 'Enable Local Overrides' checkbox is checked. The file tree on the left shows the override path: `override > project.ssafy.com/js/markany > MaWebDRM.js`. The main editor displays the JavaScript code for `MaWebDRM.js`, which includes configuration for installation, auto-loading, and policy settings.

```
2  * 20160912
3  */
4  const InstallPage = 'https://www.ssafy.com/web/sproject/markany/html/MaInstallPage.html';
5  const notSupportBsCheck = true;
6  const notSupportPlatformCheck = true;
7  const notSupportMobileCheck = true;
8
9  const installMsgShowFlag = false;
10 const installMsg = '웹 화면 보안 프로그램의 설치가 필요합니다. [확인]버튼을 누르면 설치 페이지로 이동합니다.';
11
12 // bIsAutoLoad : js가 해당 html에 include될 때 자동으로 WebDRM을 로드 및 언로드 시키려면 bIsAutoLoad 를 true로 셋팅하며
13 // 수동으로 로드하고싶으면 bIsAutoLoad값을 false로 한 뒤, 수동으로 상황에 맞게 MaLoad(), MaUnLoad()를 호출하도록 한다. (또는 MaWebDRM
14 const bIsAutoLoad = false;
15
16 // Policy
17 let bUseSave = true;
18 let bUseCopy = true;
19 const MA_EXCEPT_SAVE = 1; // 저장 단축키 ( IE는 메뉴까지 제어 가능 ) - 막음 :0, 뚫음 : 1
20 const MA_EXCEPT_PRINT = 1; // 프린트 단축키 ( IE는 메뉴까지 제어 가능 ) - 막음 :0, 뚫음 : 1
21 const MA_EXCEPT_DEV = 1; // 개발자도구 단축키 ( IE는 메뉴까지 제어 가능 ) - 막음 :0, 뚫음 : 1
22 const MA_EXCEPT_COPY = 1; // 복사 단축키 ( IE는 메뉴까지 제어 가능 )- 막음 :0, 뚫음 : 1
23
24 // set ICP
25 const g_ierrCnt = 0;
26 const g_ICPOn = 0; // ICP On : 1 / Off : 0
27 const g_ICPType = 2;
28 const g_szICPMsg = 'MarkAny Inc.';
29 const g_iICPTextPercent = 4;
30 const g_iICPOpacity = 60;
31
32 const g_ICPFont = '굴림';
33 const g_ICPDegree = 0;
```


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
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JavaAlgorithmStudy Public

 Java


 0

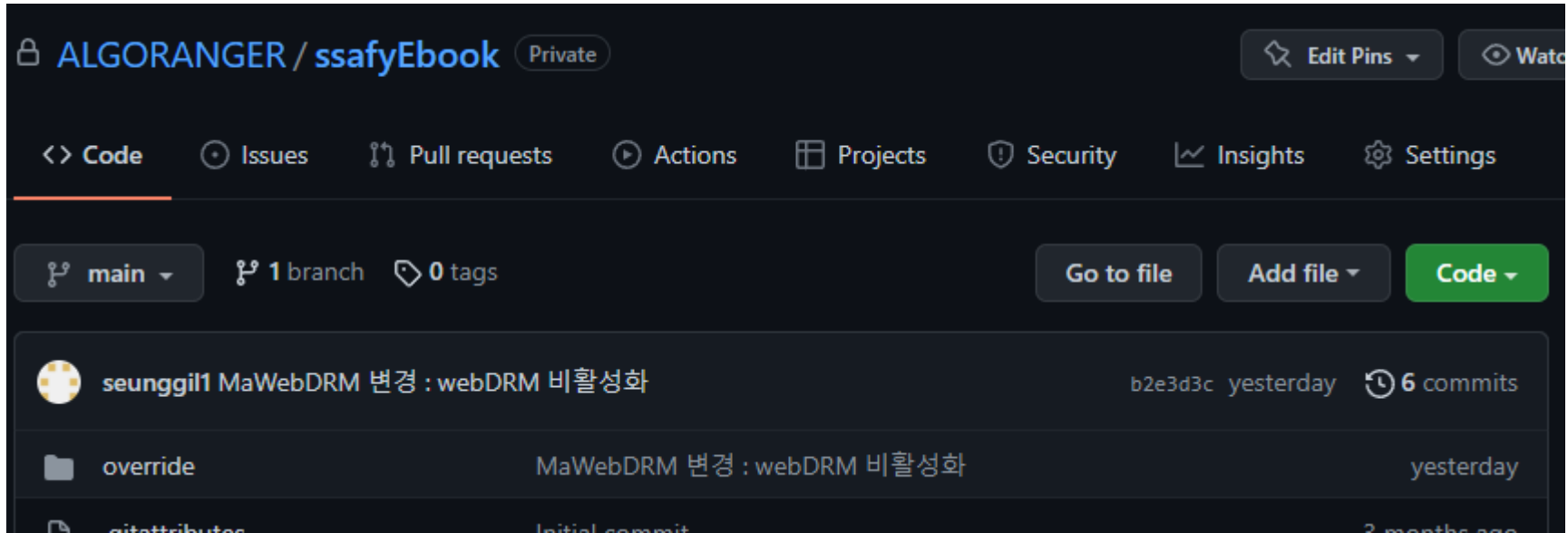
 0

 0

 0

Updated 2 days ago





방법

