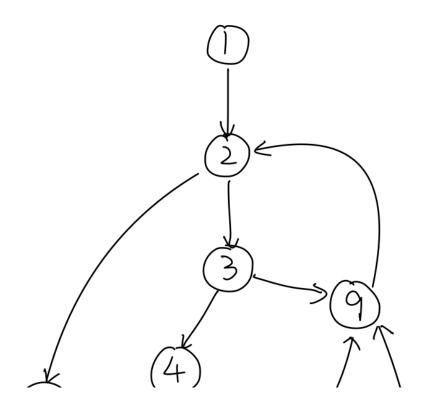
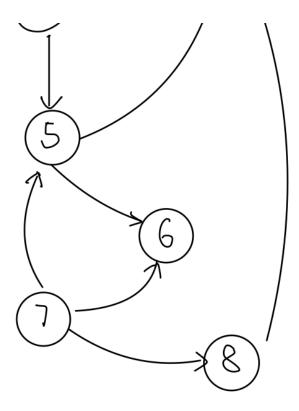
## 3019213043 刘京宗

1.画出控制流图

```
public static int patternIndex(String subject, String pattern) {
 final int NOTFOUND = -1;
int iSub = 0, rtnIndex = NOTFOUND;
 boolean isPat = false;
int subjectLen = subject.length();
 int patternLen = pattern.length();
while (isPat == false && iSub + patternLen - 1 < subjectLen) {
   if (subject.charAt(iSub) == pattern.charAt(index:0)) {
     rtnIndex = iSub; // Starting at zero
    isPat = true:
    for (int iPat = 1; iPat < patternLen; iPat++) {
      if (subject.charAt(iSub + iPat) != pattern.charAt(iPat))
        rinIndex = NOTFOUND;
        isPat = false;
        break;// out of for loop)
   iSub++;
 return (rtnIndex);
```







## 2.找出图中主路径

[1,2,10]

[1,2,3,9]

[1,2,3,4,5,9]

[1,2,3,4,5,6,7,8,9]

[3,9,2,10]

[3,4,5,9,2,10]

[3,4,5,6,7,8,9,2,10]

[6,7,6]

[7,6,7]

[2,3,9,2]

[3,9,2,3]

[9,2,3,9]

[2,3,4,5,6,7,8,9,2]

[3,4,5,6,7,8,9,2,3]

[4,5,6,7,8,9,2,3,4]

[5,6,7,8,9,2,3,4,5]

[6,7,8,9,2,3,4,5,6]

[7,8,9,2,3,4,5,6,7]

## 3.找到测试用例,可以覆盖所有主路径

subject="",pattern="TJU" 路径为[1,2,10]

subject="AAAA",pattern="TJU" 路径为[1,2,3,9,2,3,9,2,10]

subject="TJU",pattern="T" 路径为[1,2,3,4,5,9,2,10]

subject="TTJU",pattern="TJU" 路径为[1,2,3,4,5,6,7,8,9,3,4,5,6,7,5,6,7,9,2,10]

subject="TTTT",pattern="TJU" 路径为[1,2,3,4,5,6,7,8,9,2,3,4,5,6,7,8,9,2,10]