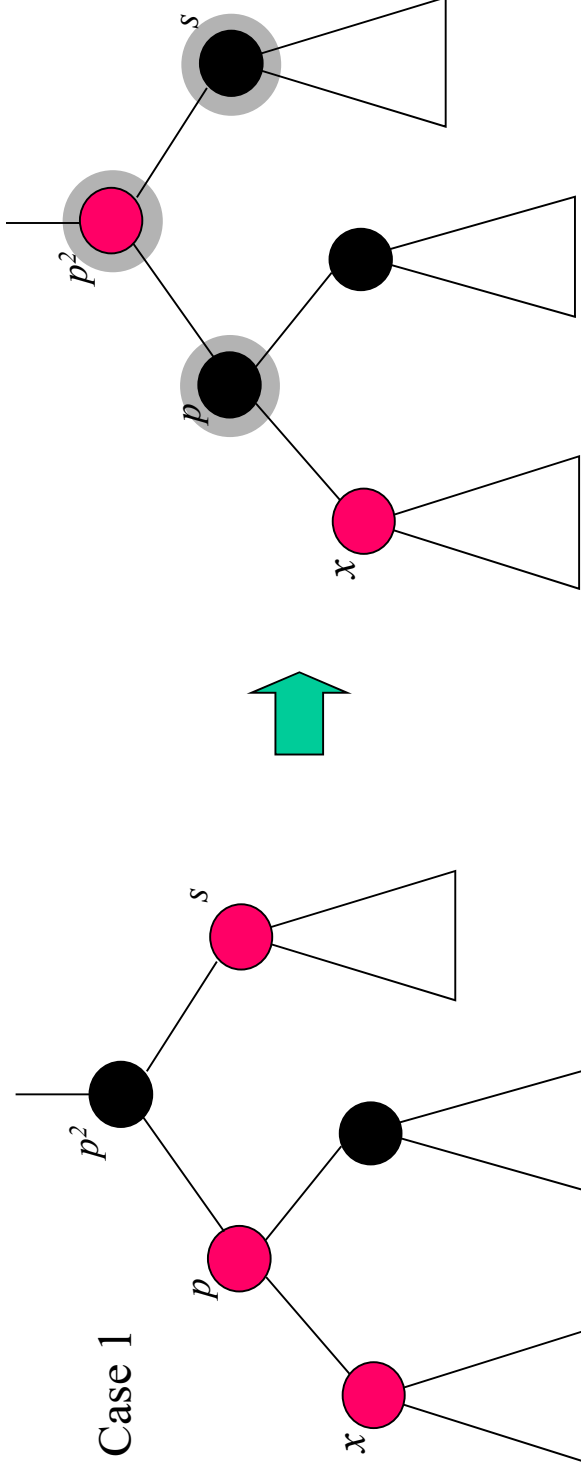


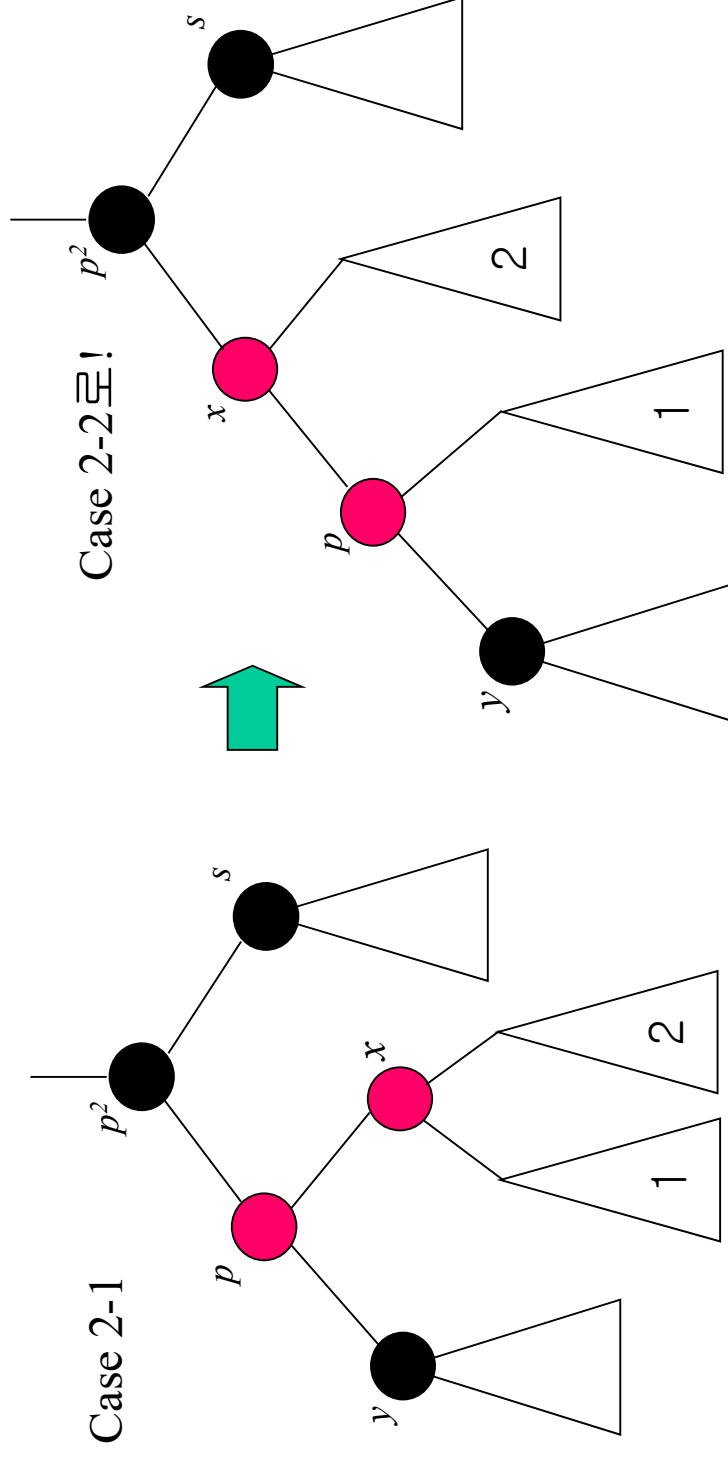
## Case 1: $s$ 가 레드

● : 색상이 바뀐 노드



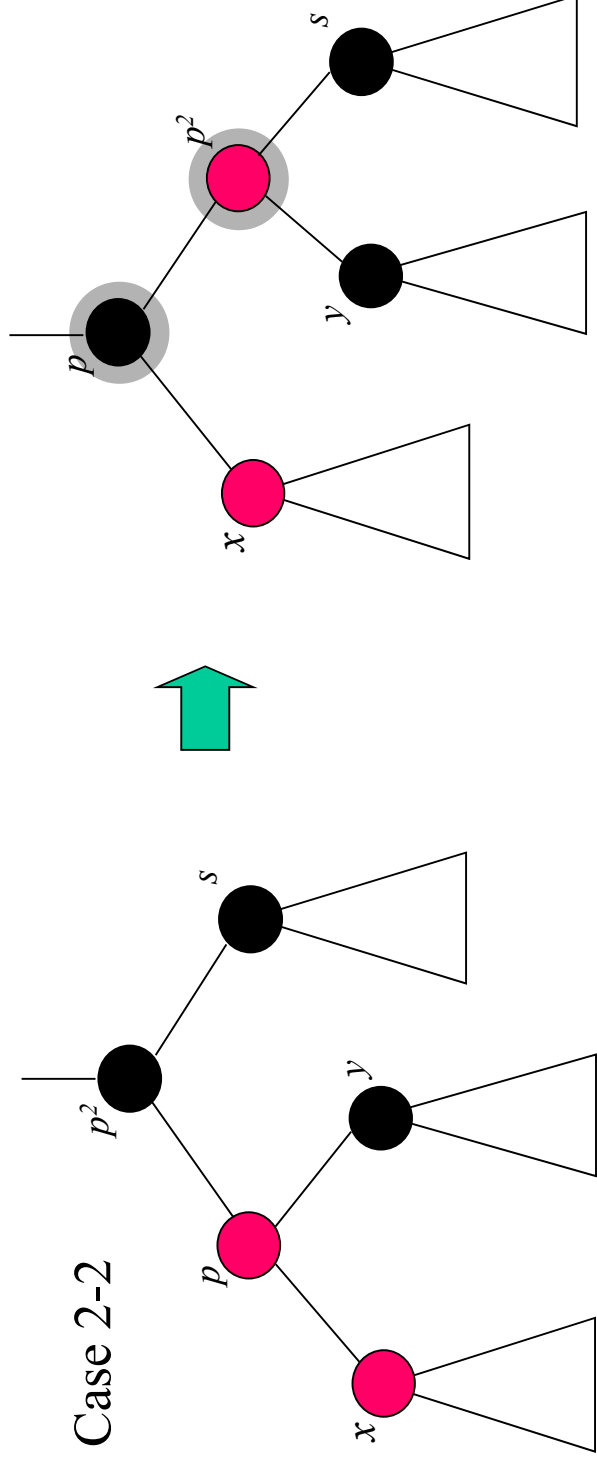
✓  $p^2$ 에서 방금과 같은 문제가 발생할 수 있다

## Case 2-1: $s$ 가 블랙이고, $x$ 가 $p$ 의 오른쪽 자식



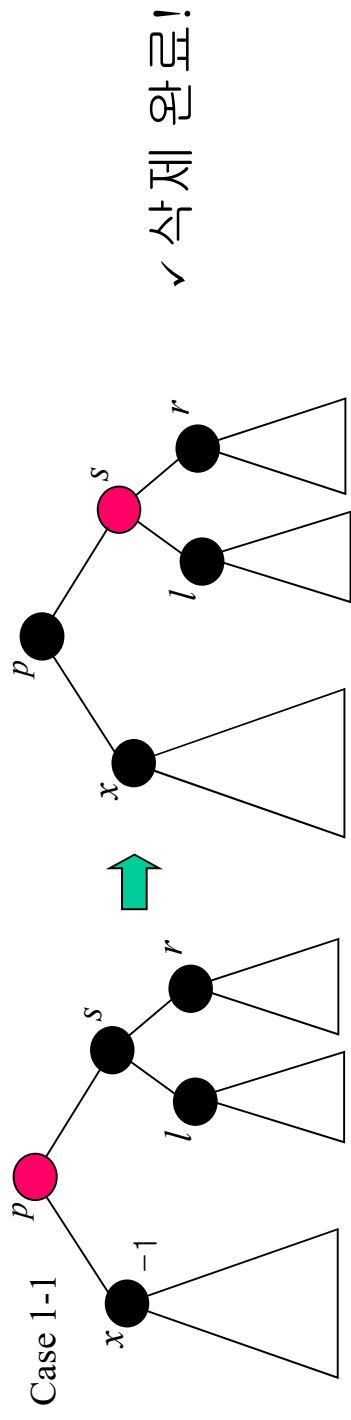
## Case 2-2: $s$ 가 블랙이고, $x$ 가 $p$ 의 왼쪽 자식

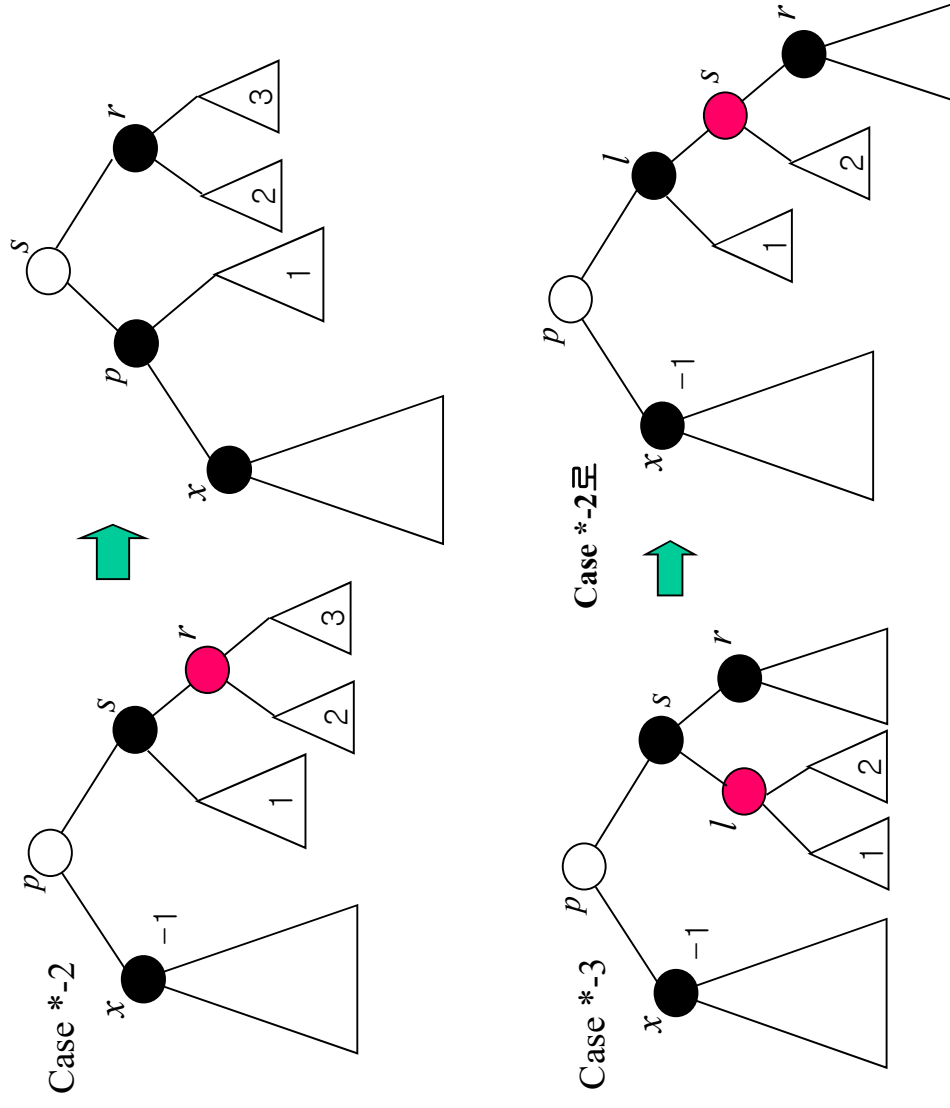
● : 색상이 바뀐 노드

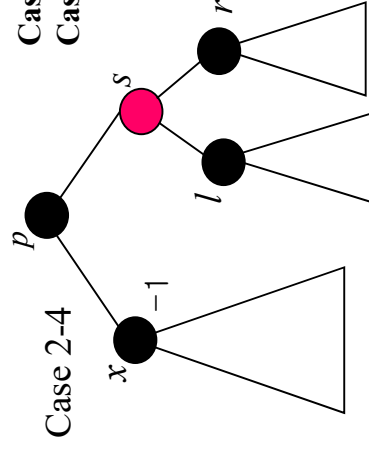
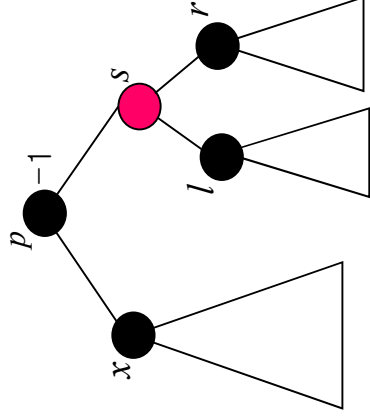
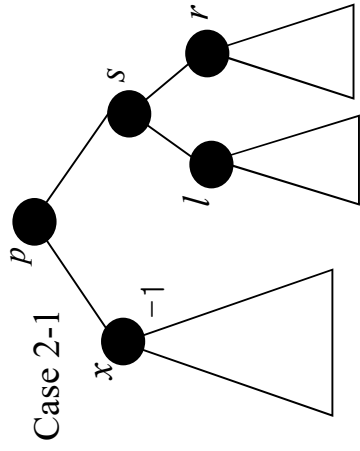


✓ 삽입 완료!

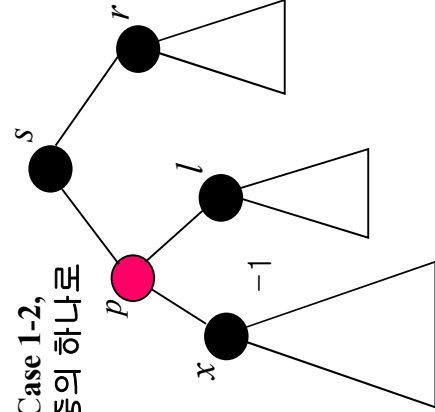
## 각 경우에 따른 처리







Case 1-1, Case 1-2,  
Case 1-3 중의 하나로



✓  $p$ 에서 방금과 같은 문제가 발생. 재귀적으로 처리.