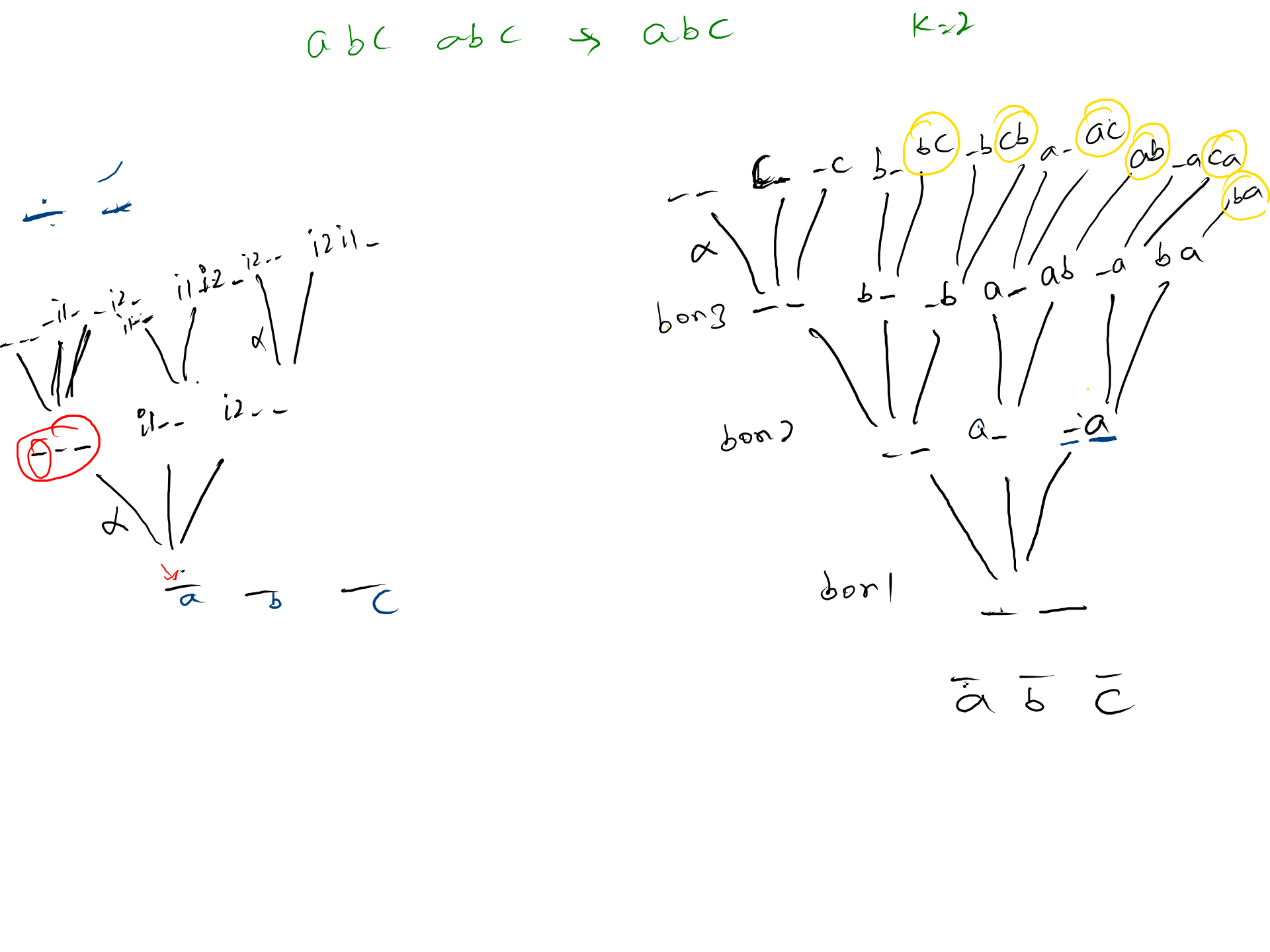
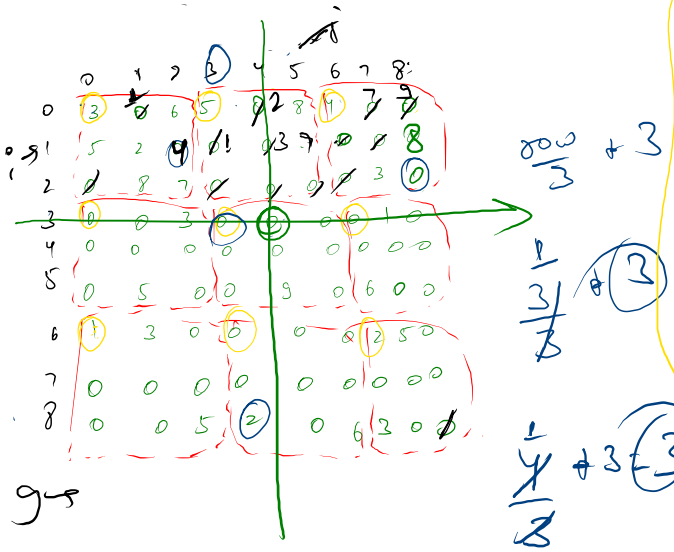
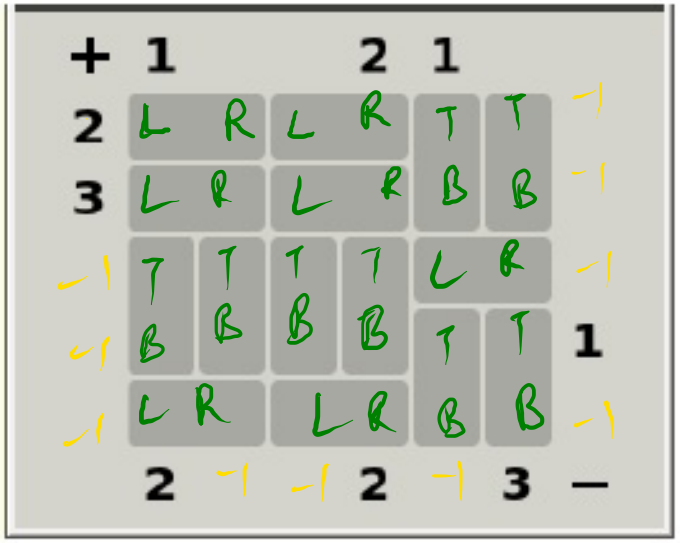
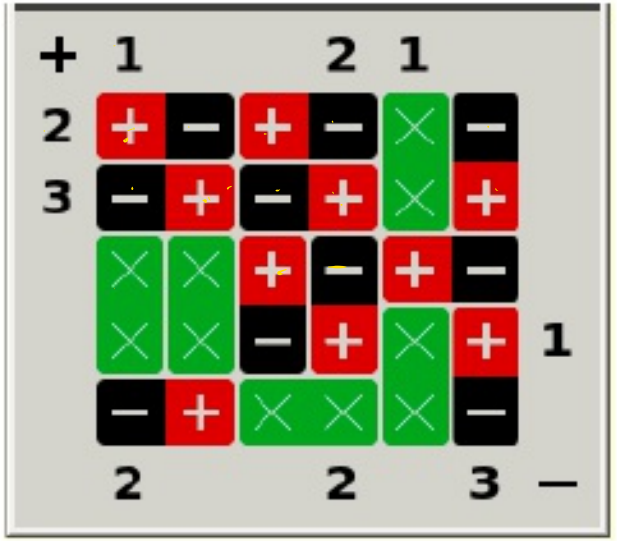

abc abc ⇒ abc
k=2
bon3
bon2
bon1

```java
public static void solveSudoku(int[][] board, int i, int j) {
  // write yopur code here
  if(i == board.length){
      display(board);
      return;
  }

  int nrow = i;
  int ncol = j;

  if(j == board[0].length-1){
      nrow++;
      ncol=0;
  }else{
      ncol++;
  }

  if(board[i][j] !=0){
      solveSudoku(board,nrow,ncol);
  }else{
      for(int no =1;no<=9;no++){

          if(isvalid(board,i,j,no) == true){
              board[i][j] = no;
              solveSudoku(board,nrow,ncol);
              board[i][j] = 0;
          }

      }
  }
```



```java
public static boolean isvalid(int[][] board,int row,int col,int no
{

    for(int j = 0; j<board[0].length;j++){
        if(board[row][j] == no){
            return false;
        }
    }

    for(int i =0;i<board.length;i++){
        if(board[i][col] == no){
            return false;
        }
    }

    int rtl = row/3*3;
    int ctl = col/3*3;

    for(int i=0;i<3;i++){
        for(int j =0;j<3;j++){
            if(board[rtl+i][ctl+j]== no){
                return false;
            }
        }
    }

    return true;

}
```




Condⁿ (I)

Condⁿ (II)