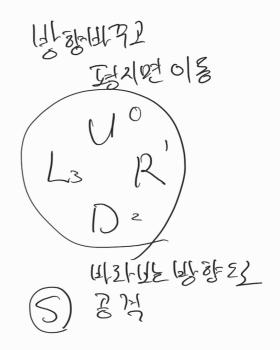
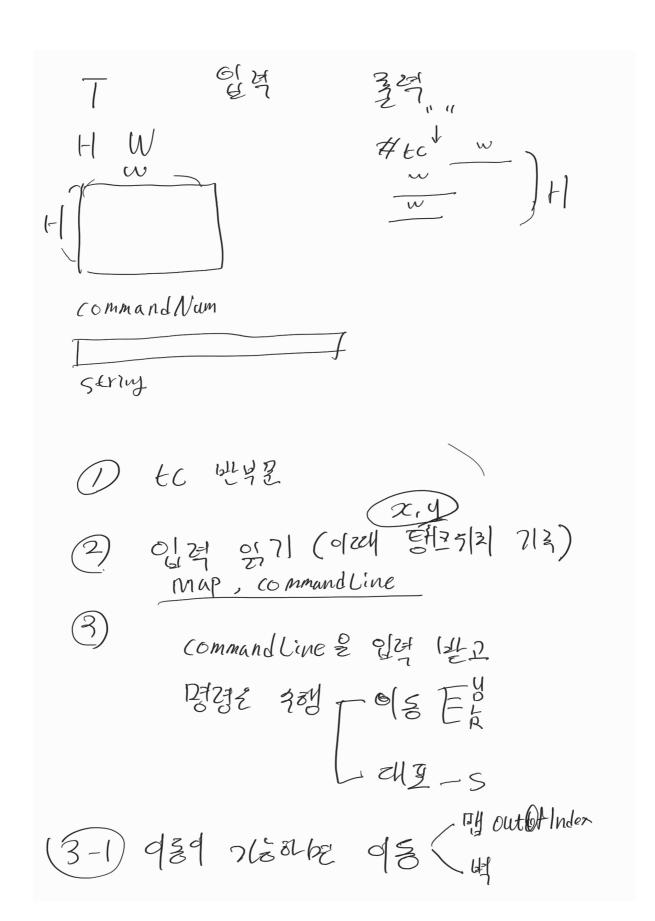
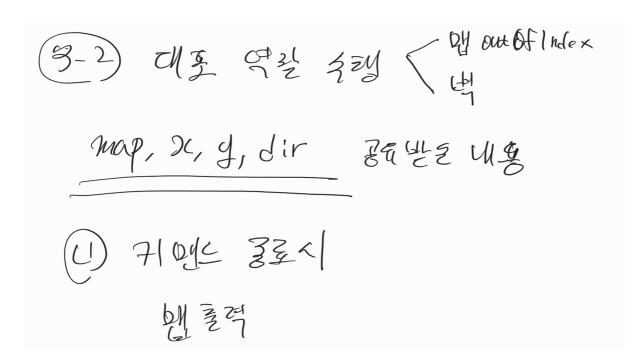
## **SWEA 1873**



- . 정지 권라진입가능
- 米 母多 园
- # 강철 벽
- 물 진입불가







package d3;

**SWEA 1873** 

```
import java.io.BufferedReader;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.StringTokenizer;
//public class Solution {
public class Test1873_2 {
  static int H;
  static int W;
  static int[] dx = \{ 0, 1, 0, -1 \};
  static int[] dy = \{ -1, 0, 1, 0 \};
 public static void main(String[] args) throws NumberFormatException, IOException {
 // main
    System.setIn(new FileInputStream("C:/CodingStudy/SWEA/D3/Test1873_input.txt"));
    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
    StringTokenizer st;
    int T = Integer.valueOf(br.readLine());
    for (int tc = 1; tc <= T; tc++) { // ----- tc 시작
      st = new StringTokenizer(br.readLine());
      H = Integer.valueOf(st.nextToken());
      W = Integer.valueOf(st.nextToken());
      char[][] map = new char[H][W];
      int[] tankPos = new int[3];
       System.out.println("H:" + H + " " + "W:" + W);
//
      for (int c = 0; c < H; c++) { // ------ 맵 입력 및 탱크 상태 확인
       String tmpMap = br.readLine();
       for (int r = 0; r < W; r++) {
         map[c][r] = tmpMap.charAt(r);
          switch (map[c][r]) {
          case '^':
            tankPos[2] = 0;
            tankPos[0] = c;
            tankPos[1] = r;
            map[c][r] = '.';
            break;
          case '>':
            tankPos[2] = 1;
            tankPos[0] = c;
            tankPos[1] = r;
            map[c][r] = '.';
            break;
          case 'v':
            tankPos[2] = 2;
            tankPos[0] = c;
            tankPos[1] = r;
            map[c][r] = '.';
            break;
          case '<':
            tankPos[2] = 3;
            tankPos[0] = c;
            tankPos[1] = r;
            map[c][r] = '.';
            break;
          }
```

```
int comNum = Integer.valueOf(br.readLine());
     String comLine = br.readLine();
     for (int comIdx = 0; comIdx < comNum; comIdx++) { // -----command 돌리기
       switch (comLine.charAt(comIdx)) {
       case 'U':
         tankMove(tankPos, 0, map);
         break;
       case 'R':
         tankMove(tankPos, 1, map);
         break;
       case 'D':
         tankMove(tankPos, 2, map);
         break;
       case 'L':
         tankMove(tankPos, 3, map);
         break;
       case 'S':
         tankShot(tankPos, map);
         break;
       }
//
         print(tankPos, map);
//
         System.out.println(comLine.charAt(comIdx));
     System.out.print("#"+tc+" ");
     print(tankPos,map);
   \} // -----end tc
 }// end main
 public static void print(int[] pos, char[][] map) { // 확인하기 위해서 함수로 바꿈
   for (int c = 0; c < H; c++) { // ------ 맵 출력 탱크 추가 해야함 //
 추가 했음
     for (int r = 0; r < W; r++) {
       if(c==pos[0] && r==pos[1]) {
         switch (pos[2]) {
         case 0:
           System.out.print('^');
           break;
         case 1:
           System.out.print('>');
           break;
         case 2:
           System.out.print('v');
         case 3:
           System.out.print('<');</pre>
           break;
         }
       }
       else
```

```
System.out.print(map[c][r]);
     System.out.println();
                                      ----end 맵 출력
   } // -----
 }
  public static void tankShot(int[] pos, char[][] map) {
   int sc = (pos[0]);
   int sr = (pos[1]);
   while (true) {
     sc += dy[pos[2]];
     sr += dx[pos[2]];
       System.out.println("sc:" + sc + " " + "sr:" + sr);
//
     if ((sc < 0) || (sc >= H) || (sr < 0) || (sr >= W)) { // 벽 나가는 경우
       return;
     } else if (map[sc][sr] == '*') { // 벽돌벽
       map[sc][sr] = '.'; // 파! 괴!
       return;
     } else if (map[sc][sr] == '#') { // 강철벽
       return;
     }
   }
 }
  public static void tankMove(int[] pos, int dir, char[][] map) { //
   pos[2] = dir;
   int newC = (pos[0] + dy[dir]);
   int newR = (pos[1] + dx[dir]);
   if ((newC >= 0) && (newC < H) && (newR >= 0) && (newR < W) && (map[newC][newR] ==
 '.')) {
     pos[0] += dy[dir];
     pos[1] += dx[dir];
   }
   else {
   }
 }
}
```

오늘 상태도 안 좋았는데, 어렵다고 생각한 문제가 쉽게 풀렸더니 살짝 정신 나간 하루를 보낸 것 같다.

다시 다음 다잡고 열심히 하자.