

Requirements

- Go 1.20+ (any recent Go should work)

Build

```
go build 9MI0600147.go
```

Run

```
./9MI0600147 < input.txt
```

or

Input format (from STDIN)

The program expects **three things** in this order, separated by spaces/newlines:

1. N — total number of **numbered** tiles (the board is $k \times k$ where $k = \sqrt{N+1}$).
 - Example: for a 3x3 board, $N = 8$; for 4x4, $N = 15$.
2. I — the **target index** (0-based) where the blank 0 should be in the **goal** configuration.
 - If I is out of range, the blank's goal position defaults to the **last cell**.
3. `tiles` — a flat list of $N+1$ integers describing the **starting** board, row-major.
 - It must contain all values $0 \dots N$ exactly once; 0 is the blank.