

Route Killer (beta) — Problem Solve Squad Guide

Audience: Amazon Problem Solve Squad

Purpose: Quickly translate outbound **routes** (two-letter codes) into **floor locations** on a facility map for route chasing, highlight them on an interactive layout, and share selections.

 **Screenshots:** This guide marks places where screenshots help. Please capture and insert your own screenshots in those spots.

UI Tour

- **Header**

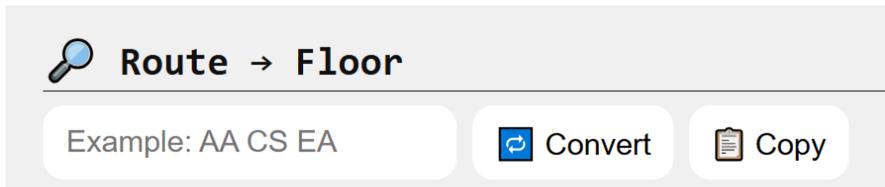
 **Facility picker**



Facility: SOR3 

Switching facilities **fully resets** the screen (results, chips, selections, counters).

- **Route → Floor panel**

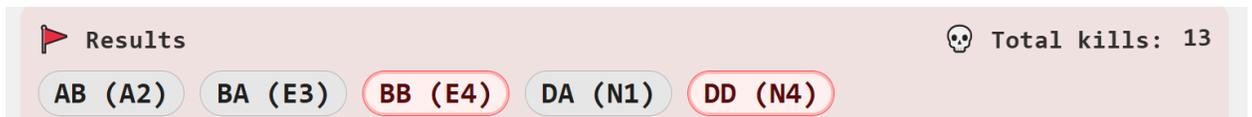


 **Route → Floor**

Example: AA CS EA  

- Input accepts **multiple routes** separated by **spaces** (or commas/semicolons/|).
- **Copy** () copies the current results line.

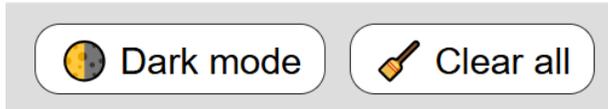
-  **Results panel**



 **Results**  Total kills: 13

AB (A2) BA (E3) **BB (E4)** DA (N1) **DD (N4)**

- Shows chips for converted routes (e.g., AA (A1)).
- **Warnings** (glove-typo fix) appear as emphasized chips, and the **red**



- **Dark mode** toggle.
- **Clear all** button (same as **Esc**).

Daily Ops — How to Use in the Field

1. **Pick the facility** from the header.
2. **Enter routes** (e.g., AA CS EA) and press **Enter**.
3. **Watch the map:**
 - Matching cells **blink**; hovering a cell toggles route vs. floor text.
4. **Fix hints & warnings:**
 - Extra letters (e.g., ADD, ADF) are trimmed; you'll see a **red blinking** message: **fixed ADD → AD, fixed ADF → AD**.
 - Digits at the end are ignored with a small note: **digits ignored**.
 - If a floor doesn't exist on this layout, you'll get (ЕГТОГ) in Results.
5. **Selections:**
 - Click cells to build a selection set (green blink). Copy routes/floors via buttons.
6. **Reset:**
 - Press **Esc** or **Clear all**.

Keyboard & pointers

- **Enter**: convert current input
- **Esc**: full clear
- **Hover**: temporarily show route instead of floor
- **Click cell**: toggle selection

Route → Floor Conversion (How it works)

“Idiot-proof” input handling

- Input is normalized to **uppercase**.
- Any **digits at the end** of a token are **ignored** (and noted as `digits ignored` if applicable).
- Any **extra letters beyond the first two** (e.g., AFF, ADF) are **ignored**, and the token is flagged as a **glove-typo fix**:
 - Chip appears emphasized; and a red blinking note shows `fixed AFF → AF`.
- Duplicate routes in the same submission are **de-duplicated**.
- Tokens that **don't parse** as routes are labeled ``.

Layout presence check

- If a route converts to a floor that **doesn't exist in the current layout**, the tool returns a chip `ERROR` and **does not** highlight or count it.

Mathematical mapping for nerds (SOR3 example)

For SOR3, the logic file is `logic/SOR3.txt` containing the regex `([A-Z])([1-6])`. The second group `[1-6]` determines the number of **columns** $C=6$ used by the mapping.

Let the two-letter route be $\alpha\beta$ with $\alpha, \beta \in \{A, \dots, Z\}$.

1. Convert letters to numbers:
 $a = \text{ord}(\alpha) - \text{ord}(A)$, $b = \text{ord}(\beta) - \text{ord}(A)$ with $a, b \in \{0, \dots, 25\}$.
2. Linear index:
 $i = 26 \cdot a + b$.
3. With $c = 6$ columns (SOR3):
 $\text{row} = \lfloor i / 6 \rfloor$, $\text{col} = (i \bmod 6) + 1$.
4. Floor code:
Floor = `chr(ord(A) + row) // col` (letter for row, 1-based number for column).

Checks: AA → A1, AF → A6, AG → B1.

For other facilities, c is inferred from the logic regex (e.g., `[1-3]` → $C=3$). The same formulas apply with your facility's c .

Adding a New Facility for even more nerds (end-to-end)

Quick Start

File layout (root of the tool):

```
/index.html
/list.txt           # facility codes, one per line (e.g., SOR3, PDX9)
/layouts/         # facility layouts as HTML tables
├── SOR3.txt
└── PDX9.txt
/logic/           # facility logic, 1 regex per file
├── SOR3.txt      # e.g., ([A-Z])([1-6])
└── PDX9.txt      # e.g., ([A-Z])([1-3])
/logos/
├── SOR3.png
└── PDX9.png
```

Serve locally (avoid file:// fetch restrictions):

```
python -m http.server 8080
```

Create/Update `` (root):

- One facility code **per line**, uppercase recommended.
- Example:

```
SOR3
PDX9
DPD1
```
- The dropdown order follows the file order. Lines starting with # are ignored (comments).

Create the logic file in /logic/<FACILITY>.txt:

- Content: a **single regex** that defines valid floor labels, e.g.:
 - `([A-Z])([1-6])` → floors like A1...A6, B1...B6, ... (→ C=6)
 - `([A-Z])([1-3])` → floors like A1...A3, B1...B3, ... (→ C=3)
- **Tips:**
 - Provide only the **pattern**, no surrounding slashes. The tool anchors it to `^...$` automatically.
 - The **second capture** must be the **column number** range; the tool infers column count C from ranges like `[1-6]`.

- Keep it simple; if your layout uses more complex numbering, align the regex accordingly.

Create the layout in /layouts/<FACILITY>.txt:

A **clean HTML** `` (no extraneous wrappers/styles). Example minimal grid:

```
<table>
  <tbody>
    <tr>

<td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td><td>A6</td>
>
    </tr>
    <tr>

<td>B1</td><td>B2</td><td>B3</td><td>B4</td><td>B5</td><td>B6</td>
>
    </tr>
    <!-- ...more rows as needed... -->
  </tbody>
</table>
```

You may include `rowspan/colspan` cells (e.g., staging) or **blank** cells. To mark a decorative/empty area, leave the `<td>` empty; the tool styles it as a blank.

Do not wrap labels inside `<p>`, ``, etc. Just A1, B3, ... inside the `<td>`.

1. **Add a logo** to /logos/<FACILITY>.png:

Small horizontal image works best (it sits in the header).

2. **Test:**

Start local server; open the tool; pick the new facility.

Enter test routes (e.g., AA AF AG).

Confirm that highlights appear in expected cells. If not:

- Check that table cells exactly match the **regex format** (e.g., A1, not a1 or A01).
- Verify the **column range** in the logic file matches the **number of columns** you intend to map (e.g., [1-3] → 3 columns).

Governance & Conventions

- **File naming:** Use **exact facility code** (e.g., SOR3.txt, SOR3.png).

- **Regex logic:** Keep the second capture group as the **numeric column**; prefer simple ranges like [1-6].
 - **Layout table:** Keep cells **plain** (A1, B2, ...). Avoid wrapping tags or inline styles.
 - **Localization:** UI text and comments are in **English**.
 - **Reset on switch:** Facility switching performs a full state reset by design.
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Appendix — Developer Notes

- **Logic ingestion**
 - The tool reads /logic/<FACILITY>.txt and normalizes it to a full-string regex (^...\$). Column count C is inferred from a range like [1-6] (fallback C=6).
 - **Mapping math (generalized)**
 - With C columns from logic, for route $\alpha\beta$:
 - $i = 26 \cdot (\text{ord}(\alpha) - \text{ord}(A)) + (\text{ord}(\beta) - \text{ord}(A))$
 - $\text{row} = \lfloor i / C \rfloor, \text{col} = (i \bmod C) + 1$
 - $\text{Floor} = \text{chr}(\text{ord}(A) + \text{row}) \parallel \text{col}$
 - **Layout parsing**
 - Cells matching the logic regex become interactive (data-floor, data-route). Empty non-stage cells get a “blank” style.
 - **Warnings**
 - Extra letters beyond two are flagged; duplicates are deduped; invalid tokens are labeled (invalid).
 - **Missing-in-layout**
 - Valid route→floor that lacks a matching cell renders (ЕГТОГ) and is excluded from kill counters.
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Contact

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