Advent of Code   [About] [AoC++] [Events] [Settings] [Log Out]   Harry Comp 8*
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--- Day 2: Bathroom Security ---

You arrive at Easter Bunny Headquarters under cover of
darkness. However, you left in such a rush that you forgot to
use the bathroom! Fancy office buildings like this one
usually have keypad locks on their bathrooms, so you search
the front desk for the code.

"In order to improve security," the document you find says,
"bathroom codes will no longer be written down. Instead,
please memorize and follow the procedure below to access the
bathrooms."

The document goes on to explain that each button to be
pressed can be found by starting on the previous button and
moving to adjacent buttons on the keypad: U moves up, D moves down, L moves
left, and R moves right. Each line of instructions corresponds to one
button, starting at the previous button (or, for the first line, the "5"
button); press whatever button you're on at the end of each line. If a move
doesn't lead to a button, ignore it.

You can't hold it much longer, so you decide to figure out the code as you
walk to the bathroom. You picture a keypad like this:

```
1 2 3
4 5 6
7 8 9
```

Suppose your instructions are:

```
ULL
RRDDD
LURDL
UUUUD
```

  - You start at "5" and move up (to "2"), left (to "1"), and left (you
    can't, and stay on "1"), so the first button is 1.
  - Starting from the previous button ("1"), you move right twice (to "3")
    and then down three times (stopping at "9" after two moves and
    ignoring the third), ending up with 9.
  - Continuing from "9", you move left, up, right, down, and left, ending
    with 8.
  - Finally, you move up four times (stopping at "2"), then down once,
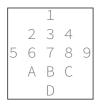   ending with 5.

So, in this example, the bathroom code is 1985.

Your puzzle input is the instructions from the document you found at the
front desk. What is the bathroom code?

Your puzzle answer was 38961.

--- Part Two ---

You finally arrive at the bathroom (it's a several minute walk from the
lobby so visitors can behold the many fancy conference rooms and water
coolers on this floor) and go to punch in the code. Much to your bladder's
dismay, the keypad is not at all like you imagined it. Instead, you are
confronted with the result of hundreds of man-hours of bathroom-keypad-
design meetings:

```
      1
    2 3 4
  5 6 7 8 9
    A B C
      D
```

You still start at "5" and stop when you're at an edge, but given the same
instructions as above, the outcome is very different:

  - You start at "5" and don't move at all (up and left are both edges),
    ending at 5.
  - Continuing from "5", you move right twice and down three times
    (through "6", "7", "B", "D", "D"), ending at D.
  - Then, from "D", you move five more times (through "D", "B", "C", "C",
    "B"), ending at B.
  - Finally, after five more moves, you end at 3.

So, given the actual keypad layout, the code would be 5DB3.

Using the same instructions in your puzzle input, what is the correct
bathroom code?

Your puzzle answer was 46C92.

Both parts of this puzzle are complete! They provide two gold stars: **

At this point, you should return to your advent calendar and try another puzzle.

If you still want to see it, you can get your puzzle input.

You can also [Share] this puzzle.