Richard_6_x_2222.txt

Get from a to b. XXes in the cells are floors.

```
+--+--+--+--+--+--+
|   XX|   XX XX XX|
+--+--+--+--+--+--+
|   XX XX XX|  |  |
+--+--+--+--+--+--+
|XX XX|XX XX XX XX|
+  +--+--+--+  +--+
|   XX XX XX|   XX|
+  +--+  +--+--+--+
|XX XX|XX|   XX XX|
+  +  +--+--+--+--+
|XX|XX|  |XX       |
+--+--+--+--+--+--+

+--+--+--+--+--+--+
|XX XX   |  |  |XX|
+  +--+  +--+--+  +
|   XX|XX XX       |
+--+  +--+--+--+--+
|XX|XX|XX XX|XX|XX|
+  +--+  +--+  +  +
|  |XX|   XX    XX|
+  +  +--+--+  +  +
|XX XX XX    |XX|XX|
+  +--+  +  +--+--+
|XX|XX   |  |  |Xa|
+--+--+--+--+--+--+

+--+--+--+--+--+--+
|XX    |XX XX XX XX|
+--+--+  +--+--+--+
|   |XX XX|XX XX|XX|
+  +--+--+  +--+--+
|XX XX|XX|XX|  |  |
+  +  +  +--+--+--+
|   |XX XX    |XX XX|
+--+--+  +--+--+  +
|  |  |XX|  |  |XX|
+--+--+--+--+--+--+
|  |  |XX|XX    XX|
+--+--+--+--+--+--+
```

```
+--+--+--+--+--+
|XX|XX    XX|  |XX|
+  +  +--+--+--+  +
|    XX XX|XX XX|  |
+  +  +--+--+  +--+
|  |XX XX|XX|    XX|
+--+--+  +  +--+--+
|XX|  |XX|XX XX XX|
+  +--+--+--+--+--+
|XX|  |  |XX|  |  |
+--+  +--+--+--+--+
|XX XX|    XX|XX|  |
+--+--+--+--+--+--+

+--+--+--+--+--+--+
|XX|XX|XX|  |XX XX|
+  +  +--+  +--+  +
|    XX        |  XX|
+--+  +  +--+--+--+
|XX|XX|XX|        XX|
+--+  +--+  +--+--+
|XX    XX|XX|  |XX|
+--+  +--+--+  +  +
|XX XX XX|  |XX XX|
+--+--+  +  +--+  +
|XX XX    XX|  |  |
+--+--+--+--+--+--+

+--+--+--+--+--+--+
|     |     |        |
+  +--+--+--+  +  +
|  |  |     |     |  |
+  +--+  +--+  +--+
|  |  |     |  |     |
+--+--+  +--+  +  +
|     |     |  |  |
+--+  +--+--+  +--+
|        |  |  | b|
+--+  +--+--+  +  +
|     |  |     |  |
+--+--+--+--+--+--+
```

From a to b takes 29 steps.

Here is the solution in reverse
-- Don't peek unless you want to cheat!

```
+--+--+--+--+--+--+
|   XX|   XX XX XX|
+--+--+--+--+--+--+
|   XX XX XX|  |  |
+--+--+--+--+--+--+
|XX XX|XX XX XX XX|
+  +--+--+--+  +--+
|   XX XX XX|   XX|
+  +--+  +--+--+--+
|XX XX|XX|   XX XX|
+  +  +--+--+--+--+
|XX|XX|  |XX >> OO|
+--+--+--+--+--+--+


+--+--+--+--+--+--+
|XX XX   |  |  |XX|
+  +--+  +--+--+  +
|   XX|XX XX      |
+--+  +--+--+--+--+
|XX|XX|XX XX|XX|XX|
+  +--+  +--+  +  +
|VV|XX|   XX    XX|
+  +  +--+--+  +  +
|>> >> >> VV|XX|XX|
+  +--+  +  +--+--+
|XX|XX   |OO|++|**|
+--+--+--+--+--+--+


+--+--+--+--+--+--+
|XX   |XX XX XX XX|
+--+--+  +--+--+--+
|VV|XX XX|XX XX|XX|
+  +--+--+  +--+--+
|VV XX|XX|XX|  |  |
+  +  +  +--+--+--+
|++|XX XX   |XX XX|
+--+--+  +--+--+  +
|  |  |XX|  |  |XX|
+--+--+--+--+--+--+
|  |  |XX|>> ++ XX|
+--+--+--+--+--+--+
```

```
+--+--+--+--+--+--+
|XX|XX    XX|  |XX|
+  +  +--+--+--+  +
|++ XX XX|XX XX|  |
+  +  +--+--+  +--+
|  |XX XX|XX|    XX|
+--+--+  +  +--+--+
|XX|    |XX|XX XX XX|
+  +  +--+--+--+--+
|XX|  |  |XX|  |  |
+--+  +--+--+--+--+
|XX XX|    XX|XX|  |
+--+--+--+--+--+--+


+--+--+--+--+--+--+
|XX|XX|XX|   |XX XX|
+  +  +--+  +--+  +
|++ << << <<|    XX|
+--+  +  +--+--+--+
|XX|XX|XX|        XX|
+--+  +--+  +--+--+
|XX    XX|XX|00|XX|
+--+  +--+--+  +  +
|XX XX XX|   |^^ <<|
+--+--+  +  +--+  +
|XX XX    XX|  |^^|
+--+--+--+--+--+--+


+--+--+--+--+--+--+
|     |     |     |
+   +--+--+--+  +  +
|  |      |++ <<|  |
+   +--+  +--+  +--+
|  |      |  |^^    |
+--+--+  +--+  +  +
|     |     |^^|  |
+--+  +--+--+  +--+
|         |  |  |VV|
+--+  +--+--+  +  +
|     |  |      |++|
+--+--+--+--+--+--+
```