# CS@Mines PUZZLE CHALLENGE sponsored by Google 

## Puzzle 1: Hopskotch

You are in a seven by seven universe where you may only travel up, down, left, and right, and your current position tells you exactly how far you may go to get to another. You must stay within the seven by seven universe during your travels.
For example, from A1 you may only go to A3 or C1 in a single step.
You are at A1. How do you get to G7?

|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | $\mathbf{2}$ | 2 | 1 | $\mathbf{2}$ | 1 | 3 | 6 |
| $\mathbf{B}$ | 1 | 1 | 5 | 3 | 3 | 3 | 5 |
| $\mathbf{C}$ | 4 | 2 | 3 | 5 | 2 | 1 | 3 |
| $\mathbf{D}$ | 1 | 1 | 5 | 1 | 2 | 4 | 3 |
| $\mathbf{E}$ | 2 | 3 | 4 | 3 | 3 | 2 | 5 |
| $\mathbf{F}$ | 3 | 4 | 1 | 3 | 1 | 5 | 3 |
| $\mathbf{G}$ | 2 | 5 | 5 | 4 | 2 | 2 | $\star$ |

