

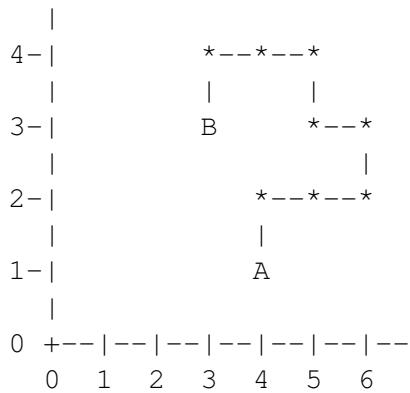
## The random walker

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A *random walker* is an agent that randomly decides which direction to go at each step. We want a function  $walker(x, y, steps)$  that given the original coordinates  $(x, y)$  of the random walker, and a string with the direction to take at each step, computes the final coordinates of the walker.

The string *steps* contains only the characters 'N', 'S', 'E', and 'W'. North ('N') means moving up one position in the *y* axis, and South ('S') moving down one position in *y*. Similarly, East ('E') and West ('W') correspond to moving along the *x* axis one position right or left, respectively.

For instance if the walker starts at position A (4, 1) in the picture below, and the string with the steps taken is 'NEENWNWWS', the walker will follow the path through positions marked with stars in the picture, and the final position will be B (3, 3).



**Important:** Only the function is expected. If your submission includes a main program, it has to be either commented out, or under the condition `if __name__ == "__main__":`

## Problem information

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