

4 In Search of Grace



h, another Tarnished are we? Come to the Lands Between beckoned by Grace, or perhaps fortune? Both favor the bold, and neither are so easily obtained as you may have been promised. Your predecessors have proven that most thoroughly. I would be willing to part with some wisdom to aid in your great errand, should you assist me with a few tasks.

I need you to, shall we say, collect on some outstanding debts. I make my way by assisting those such as yourself who find themselves ill-equipped to deal with the dangers and forces at large. I simply cannot help myself. Drove of naive tarnished pouring into these lands, bright-eyed and full of vigour. To be cut down by the even the wretched nobility, it seems such a waste of life and gilding. Though, by my own admission I was a little too ...free with my investments.

Many of my goods, I granted on the understanding that runes would be forthcoming, as the Fingers guided those like yourself to glory. A great shame it is then, that my steel and magick now litters crypts and caverns, having outlasted the minds and flesh of those upon which I bequeathed such boons.

I shall furnish you with several locations and maps. Gather my goods, then use them to put an end to the fools who fell before they could make good on their contracts. Tarry not, I suggest studying the maps well before you arrive. Should you succeed in this task, you may even keep the armaments for a while. An Elden Lord must look the part, after all.

4.1 Input

Input will consist of several lines of text which form a rectangular grid-based map of a dungeon. Each character in a line of text represents the contents of its respective cell:

S=Start	W=Wall
L=Loot	B=Boss

A single white space represents an empty cell.

4.2 Output

Output should be a single integer, that is the minimum number of steps taken to complete the dungeon.

Walls are impassible. All loot items must be collected before facing boss. There is only one boss, but may be multiple loot items. You must move into a cell to interact with its contents. All steps are to an adjacent grid space in a cardinal direction. Your path must be continuous.

4.3 Sample Input/Output

SAMPLE INPUT AND OUTPUT ON NEXT PAGE

Sample Input 1	Sample Output 1
<pre> WWWWW S BW WWWWW </pre>	3
Sample Input 2	Sample Output 2
<pre> WWWWW W BW S WWW W LW WWWWW </pre>	13
Sample Input 3	Sample Output 3
<pre> WWWWWWSWWWWW WB LL LW WWWWWWWW WWW WL LW WWWWW WWWWW W L L W WWWWWWWWWWW </pre>	52