[Shop] [Settings] [Log Out] Vytautas Jakutis (Sponsor) 1

--- Day 2: Dive! ---

- down X increases the depth by X units.
- up X decreases the depth by X units.

Note that since you're on a submarine, down and up affect your depth, and so they have the opposite result of what you might expect.

You should probably figure out where it's going. For example:

forward 5 up 3 forward 2

Your horizontal position and depth both start at 0. The steps above would then modify them as follows:

- down 5 adds 5 to your depth, resulting in a value of 5.
- up 3 decreases your depth by 3, resulting in a value of 2. down 8 adds 8 to your depth, resulting in a value of 10.

15 and a depth of 10. (Multiplying these together produces 150.)

Calculate the horizontal position and depth you would have after following the planned course. What do you get if you multiply your final horizontal position by your final depth?

--- Part Two ---

actually slightly more complicated.

In addition to horizontal position and depth, you'll also need to track a third value, aim, which also starts at 0. The commands also mean something

- down X increases your aim by X units.
- up X decreases your aim by X units.
- - It increases your depth by your aim multiplied by X.

Again note that since you're on a submarine, down and up do the opposite of what you might expect: "down" means aiming in the positive direction.

Now, the above example does something different:

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- forward 5 adds 5 to your horizontal position, a total of 5. Because your aim is 0, your depth does not change.
- down 5 adds 5 to your aim, resulting in a value of 5.
- forward 8 adds 8 to your horizontal position, a total of 13. Because your aim is 5, your depth increases by 8*5=40.
- up 3 decreases your aim by 3, resulting in a value of 2.
- down 8 adds 8 to your aim, resulting in a value of 10.
- forward 2 adds 2 to your horizontal position, a total of 15. Because your aim is 10, your depth increases by 2*10=20 to a total of 60.

After following these new instructions, you would have a horizontal position of 15 and a depth of 60. (Multiplying these produces 900.)

Using this new interpretation of the commands, calculate the horizontal position and depth you would have after following the planned course. What do you get if you multiply your final horizontal position by your final depth?

Your puzzle answer was 1488311643.

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.