

Day 2: <https://adventofcode.com/2021/day/2>

## Part 1

<https://mathematica.stackexchange.com/questions/120370/replace-part-on-string-in-list>

```
In[ ]:= input = ReadList["/Users/mattpoepping/aoc2021/day02/input_1.txt", String];  
Times @@ Total[ Map[ ToExpression[ StringReplace[#,  
    {"forward" → "{1,0}*", "down" → "{0, 1}*", "up" → "{0,-1}*" } ] ] &, input ]]  
Out[ ]:= 2187380
```

## Part 2

```
input = Import["/Users/mattpoepping/aoc2021/day02/input_1.txt", "Table"];  
m := Function[ {loc, cmd}, Switch[ cmd[[1]],  
  "down", loc + {0, 0, cmd[[2]]},  
  "up", loc + { 0, 0, -1 * cmd[[2]]},  
  "forward", loc + { cmd[[2]], loc[[3]] * cmd[[2]], 0}  
]  
]  
Times @@ Last[FoldList[ m, {0, 0, 0}, input]] [[1 ;; 2]]
```

Out[ ]= 2 086 357 770