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--- Day 8: Handheld Halting ---
Your flight to the major airline hub reaches cruising altitude without
incident. While you consider checking the in-flight menu for one of those
drinks that come with a little umbrella, you are interrupted by the kid
sitting next to you.
Their handheld game console won't turn on! They ask if you can take a look.
You narrow the problem down to a strange infinite loop in the boot code
(your puzzle input) of the device. You should be able to fix it, but first
you need to be able to run the code in isolation.
The boot code is represented as a text file with one instruction per line
of text. Each instruction consists of an operation (acc, jmp, or nop) and
an argument (a signed number like +4 or -20).
  - acc increases or decreases a single global value called the
    accumulator by the value given in the argument. For example, acc +7
    would increase the accumulator by 7. The accumulator starts at \odot.
    After an acc instruction, the instruction immediately below it is
    executed next.
  - jmp jumps to a new instruction relative to itself. The next
    instruction to execute is found using the argument as an offset from
    the jmp instruction; for example, jmp +2 would skip the next
    instruction, jmp +1 would continue to the instruction immediately
    below it, and jmp -20 would cause the instruction 20 lines above to be
    executed next.
  - nop stands for No OPeration - it does nothing. The instruction
    immediately below it is executed next.
For example, consider the following program:
nop +0
lacc +1
jmp +4
acc +3
jmp -3
acc -99
acc +1
jmp-4
acc +6
These instructions are visited in this order:
nop +0
         2, 8(!)
acc +1
|jmp +4
          3
acc +3
|jmp-3|
acc -99
acc +1
jmp -4
acc +6
First, the nop +0 does nothing. Then, the accumulator is increased from 0
to 1 (acc +1) and jmp +4 sets the next instruction to the other acc +1 near
the bottom. After it increases the accumulator from 1 to 2, jmp -4
executes, setting the next instruction to the only acc +3. It sets the
accumulator to 5, and jmp -3 causes the program to continue back at the
first acc +1.
This is an infinite loop: with this sequence of jumps, the program will run
forever. The moment the program tries to run any instruction a second time,
you know it will never terminate.
Immediately before the program would run an instruction a second time, the
value in the accumulator is 5.
Run your copy of the boot code. Immediately before any instruction is
executed a second time, what value is in the accumulator?
Your puzzle answer was 1528.
The first half of this puzzle is complete! It provides one gold star: *
--- Part Two ---
After some careful analysis, you believe that exactly one instruction is
corrupted.
Somewhere in the program, either a jmp is supposed to be a nop, or a nop
is supposed to be a jmp. (No acc instructions were harmed in the
corruption of this boot code.)
The program is supposed to terminate by attempting to execute an
instruction immediately after the last instruction in the file. By changing
exactly one jmp or nop, you can repair the boot code and make it terminate
correctly.
For example, consider the same program from above:
nop +0
acc +1
|jmp +4
acc +3
|jmp -3
acc -99
acc +1
jmp-4
lacc +6
If you change the first instruction from nop +0 to jmp +0, it would create
a single-instruction infinite loop, never leaving that instruction. If you
change almost any of the jmp instructions, the program will still
eventually find another jmp instruction and loop forever.
However, if you change the second-to-last instruction (from jmp -4 to
nop -4), the program terminates! The instructions are visited in this
order:
nop +0
         2
acc +1
jmp +4
lacc +3
jmp-3
acc -99
acc +1
nop -4
acc +6
After the last instruction (acc +6), the program terminates by attempting
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Although it hasn't changed, you can still get your puzzle input.

You can also [Share] this puzzle.

(acc +1, acc +1, acc +6).

program terminates?

to run the instruction below the last instruction in the file. With this

change, after the program terminates, the accumulator contains the value 8

Fix the program so that it terminates normally by changing exactly one jmp

(to nop) or nop (to jmp). What is the value of the accumulator after the