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--- Day 4: Ceres Search ---

--- 第 4 天: 谷神星搜索 ---

"Looks like the Chief's not here. Next!" One of The Historians pulls out a device and pushes the only button on it. After a brief flash, you recognize the interior of the **Ceres monitoring station**!

“看来酋长不在这里。下一个！其中一位历史学家拿出一个设备，按下了上面唯一的按钮。短暂的闪光后，您认出了 **Ceres 监测站**的内部！”

As the search for the Chief continues, a small Elf who lives on the station tugs on your shirt; she'd like to know if you could help her with her word search (your puzzle input). She only has to find one word: **XMAS**.

随着寻找酋长的继续，住在车站的小精灵拉扯着你的衬衫；她想知道您是否可以帮助她进行单词搜索（您的拼图输入）。她只需要找到一个词：**XMAS**。

This word search allows words to be horizontal, vertical, diagonal, written backwards, or even overlapping other words. It's a little unusual, though, as you don't merely need to find one instance of **XMAS** - you need to find all of them. Here are a few ways **XMAS** might appear, where irrelevant characters have been replaced with **.**:

此单词搜索允许单词是水平、垂直、对角线、倒写，甚至与其他单词重叠。不过，这有点不寻常，因为您不仅需要找到一个 **XMAS** 实例 - 还需要找到所有实例。以下是 **XMAS** 可能出现的几种方式，其中不相关的字符已替换为 **.**：

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```
..X...  
.SAMX.  
.A..A.  
XMAS.S  
.X....
```

The actual word search will be full of letters instead. For example:  
实际的单词搜索将充满字母。例如：

```
MMMSXXMASM  
MSAMXMSMA  
AMXSXMAAMM  
MSAMASMSMX  
XMASAMXAMM  
XXAMMXXAMA  
SMSMSASXSS  
SAXAMASAAA  
MAMMMXMMMM  
MXMXAXMASX
```

In this word search, `XMAS` occurs a total of `18` times; here's the same word search again, but where letters not involved in any `XMAS` have been replaced with `.`:

在这个单词搜索中, `XMAS` 总共出现了 `18` 次;这里又是相同的单词搜索, 但其中不涉及任何 `XMAS` 的字母已替换为 `.`:

gimmicks.  
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```
....XXMAS.  
.SAMXMS...  
...S..A...  
..A.A.MS.X  
XMASAMX.MM  
X.....XA.A  
S.S.S.S.SS  
.A.A.A.A.A  
..M.M.M.MM  
.X.X.XMASX
```

Take a look at the little Elf's word search. How many times does `XMAS` appear?

看看小精灵的单词搜索。`XMAS` 出现多少次?

Your puzzle answer was `2639`.

你的谜题答案是 `2639`。

--- Part Two --- 第二部分 ---

The Elf looks quizzically at you. Did you misunderstand the assignment?

精灵疑惑地看着你。你误会了作业吗?

Looking for the instructions, you flip over the word search to find that this isn't actually an `XMAS` puzzle; it's an `X-MAS` puzzle in which you're supposed to find two `MAS` in the shape of an `X`. One way to achieve that is like this:

寻找说明, 您翻转单词搜索, 发现这实际上并不是一个 `XMAS` 拼图; 这是一个 `X-MAS` 谜题, 您应该在其中找到两个 `X` 形状的 `MAS`。实现此目的的一种方法是:

M.S  
.A.  
M.S

Irrelevant characters have again been replaced with `.` in the above diagram. Within the `X`, each `MAS` can be written forwards or backwards.

在上图中，不相关的字符再次替换为 `.` 在 `X` 中，每个 `MAS` 都可以向前或向后写入。

Here's the same example from before, but this time all of the `X-MAS`s have been kept instead:

下面是之前相同的示例，但这次保留了所有 `X-MAS`s：

.M.S.....  
..A..MSMS..  
.M.S.MAA..  
..A.ASMMS..  
.M.S.M.....  
.....  
S.S.S.S.S..  
.A.A.A.A..  
M.M.M.M.M..  
.....

In this example, an `X-MAS` appears `9` times.

在此示例中，`X-MAS` 出现了 `9` 次。

Flip the word search from the instructions back over to the word search side and try again. How many times does an `X-MAS` appear?

将 word search 从说明翻转回 word search 端，然后重试。`X-MAS` 出现多少次？

Your puzzle answer was `2005`.

你的疑惑答案是 `2005` 年。

Both parts of this puzzle are complete! They provide two gold stars: \*\*

这个拼图的两个部分都是完整的！他们提供两颗金星： \*\*

At this point, you should `return to your Advent calendar` and try another puzzle.

此时，您应该返回您的降临节日历并尝试另一个拼图。

If you still want to see it, you can `get your puzzle input`.

如果您仍然想看到它，您可以获取您的拼图输入。

You can also `[Share]` this puzzle.

你也可以 `[分享]` 这个拼图。