

499 What's The Frequency, Kenneth?

```
#include <stdio.h>

main()
{
    int i;
    char *suffix[] = { "st", "nd", "rd" };
    char *item[] = { "Unix", "cat", "sed", "awk", "grep", "ed", "vi" };

    printf("In the beginning, there was nothing.\n");
    for (i = 0; i < 7; i++)
        printf("And on the %d%s day, God created %s. And it was good.\n",
            i + 1, (i < 3) ? suffix[i] : "th", item[i]);
}
```

But then God saw that *vi* led people into temptation. Instead of choosing the righteous ways of *make*, *dbx*, and *RCS*, people used long command lines, `printf()`, and tape backups.

So God decreed, "I see that Engineers have thus defiled my *vi*. And so, I shall create *emacs*, an editor more powerful than words. Further, for each instantiation *vi* hitherto, the Engineer responsible shalt perform Penance. And lo, the Penance wilt be painful; there will be much wailing and gnashing of teeth. The Engineer will read many lines of text. For each line of text, the Engineer must tell me which letters occur the most frequently."

"I charge you all with My Golden Rule: 'Friends shalt not let friends use *vi*'."

Input and Output

Each line of output should contain a list of letters that all occurred with the highest frequency in the corresponding input line, followed by the frequency.

The list of letters should be an alphabetical list of upper case letters followed by an alphabetical list of lower case letters.

Sample Input

```
When riding your bicycle backwards down a one-way street, if the
wheel falls of a canoe, how many ball bearings does it take to fill
up a water buffalo?
Hello Howard.
```

Sample Output

```
e 6
al 7
a 3
Hlo 2
```