

Answer on Question #47384, Programming, C

Problem.

Write an algorithm that inverse a line of text without inverting the word.

Solution.

Code

```
#include <stdio.h>
#include <string.h>

int main() {
    char input[256];
    char output[256];
    int iInput;
    int iOutput;
    int j;
    int k;
    int len;

    gets(input);
    strcpy(output, input);
    len = strlen(input);
    iInput = len;
    iOutput = 0;

    // String reversing
    while (iInput != 0) {
        j = iInput - 1;
        while ((input[j] != ' ') && (j != 0)) {
            j--;
        }

        if (j == 0) {
            for (k = j; k <= iInput; k++) {
                output[iOutput] = input[k];
                iOutput++;
            }
            iInput = 0;
        } else if (input[j] == ' ') {
            for (k = j + 1; k < iInput; k++) {
                output[iOutput] = input[k];
                iOutput++;
            }
            output[iOutput] = ' ';
            iOutput++;

            iInput = j;
        }
    }

    printf("%s", output);
    return 0;
}
```

Result

this is line of text
text of line is this