C function that flips the order of words inside a string:

The `reverseWords` function first reverses the entire string to get "tneduts ma i". Then, it iterates through the string and reverses individual words to get the final reversed order of words: "student am i". The code includes a demonstration in the `main` function to showcase the usage of the `reverseWords` function.

```
#include <stdio.h>
#include <string.h>
void reverseWords(char *str) {
    int len = strlen(str);
    // Reverse the entire string
    for(int i = 0; i < len / 2; i++)
        char temp = str[i];
        str[i] = str[len - 1 - i];
        str[len - 1 - i] = temp;
    }
    // Reverse individual words
    int start = 0;
    for (int i = 0; i \le len; i++)
        if (str[i] == ' ' || str[i] == '\0')
            int end = i - 1;
            while (start < end)</pre>
                char temp = str[start];
                str[start] = str[end];
                str[end] = temp;
                start++;
                end - - ;
            start = i + 1;
        }
    }
}
int main()
    char str[] = "i am student";
    printf("Original string: %s\n", str);
    reverseWords(str);
    printf("Reversed words: %s\n", str);
    return 0;
}
```