

EDITOR2.c U C day54.c U C day55.c U C day56.c U C 41.2.c U X

EDITORS

- day54.c ... U
- 53.2.c c++ U
- day54.c c... U
- day55.c c++ U
- day56.c c... U
- 41.2.c c++ U
- day42.c c... U
- day43.c c... U
- 43.2.c c++ U
- day44.c c... U

c++ ●

- C 23.c U
- 33.2 U
- C 33.2.c U
- C 33.c U
- 34.2 U
- C 34.2.c U
- 35.2 U
- C 35.2.c U
- 36.2 U
- C 36.2.c U
- 41.2 U
- C 41.2.c U
- C 43.2.c U
- C 45.2.c U
- C 53.2.c U
- add A
- C add.c M
- addition A
- Array A
- C Array.c M
- BreakSt... A

2.c U C day54.c U C day55.c U C day56.c U C 41.2.c U X

```
1 #include <stdio.h>
2
3 int main() {
4     char str[100];
5     int i;
6
7     // Input string
8     printf("Enter a string: ");
9     gets(str); // Note: use fgets() for safer input
10
11    // Print each character on a new line
12    printf("\nCharacters in the string are:\n");
13    for (i = 0; str[i] != '\0'; i++) {
14        printf("%c\n", str[i]);
15    }
16
17    return 0;
18 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

warning: this program uses gets(), which is unsafe.

Enter a string: ridjf

Characters in the string are:

r
i
d
j
f

rishabhtrivedi@Rishabhs-MacBook-Air c++ % Indexing completed. macos-clang-x64

master*+ 0 △ 0 vs/c++ Debug



The screenshot shows a macOS desktop environment with several open windows. In the foreground, a terminal window is active, displaying the following C code and its execution:

```
#include <stdio.h>
int main() {
    char str[100];
    int i;

    // Input string
    printf("Enter a lowercase string: ");
    gets(str); // Use fgets() in modern code for safety

    // Convert to uppercase manually
    for (i = 0; str[i] != '\0'; i++) {
        if (str[i] >= 'a' && str[i] <= 'z') {
            str[i] = str[i] - 32; // ASCII conversion
        }
    }

    // Display result
    printf("Uppercase string: %s\n", str);
    return 0;
}
```

The terminal output shows the user input "oiuyt" and the resulting uppercase string "OIUYT". A warning message at the bottom indicates the use of the unsafe `gets()` function.



A screenshot of a macOS desktop environment. At the top, there's a dark-themed menu bar with standard Apple icons and a date/time indicator. Below the menu bar is a dock containing various application icons. The main window is a terminal application with a dark background. It has tabs at the top labeled 'day43.c U' (selected), 'day56.c U', '41.2.c U', and 'day42.c U'. The terminal window displays a C++ program for reversing a string. The code includes a warning about the use of `gets()`. The output pane shows the execution of the program, including user input and the reversed string. The bottom of the terminal window shows the command prompt and some system status indicators.

```
c++ > C day43.c > main()
1 #include <stdio.h>
2
3 int main() {
4     char str[100];
5     int i, len = 0;
6
7     // Input string
8     printf("Enter a string: ");
9     gets(str); // Note: use fgets() for safety
10
11    // Find length of string
12    while (str[len] != '\0') {
13        len++;
14    }
15
16    // Print string in reverse order
17    printf("Reversed string: ");
18    for (i = len - 1; i >= 0; i--) {
19        printf("%c", str[i]);
20    }
21
22    printf("\n");
23    return 0;
24}
25

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER + ... | x
/ Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/sys/cdefs.h:227: 48: note: expanded from macro '_deprecated_msg'
227 |         #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
g))
|
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: ertyu
Reversed string: uytre
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```



```
c++ > 43.2.c > ...
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i, len, flag = 0;
7
8     // Input string
9     printf("Enter a string: ");
10    gets(str); // Note: use fgets() for safety
11
12    // Find length of string
13    len = 0;
14    while (str[len] != '\0' && str[len] != '\n') {
15        len++;
16    }
17
18    // Check if the string is a palindrome
19    for (i = 0; i < len / 2; i++) {
20        if (str[i] != str[len - i - 1]) {
21            flag = 1;
22            break;
23        }
24    }
25
26    if (flag == 0)
27        printf("The string is a palindrome.\n");
28    else
29        printf("The string is not a palindrome.\n");
33.2.c U
33.c U
34.2 U
34.2.c U
35.2 U
35.2.c U
36.2 U
36.2.c U
41.2 U
41.2.c U
43.2 U
43.2.c U
45.2.c U
53.2.c U
add A
add.c M
addition A
Array A
Array.c M
BreakSt... A
BreakSt... A
aster*+ ⌂ 0 ▲ 0 ⌂ vs/c++ ⌂ Debug ⌂ Indexing completed. macos-clang-x64 ⌂ Prettier
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER + - ×
JavaSE-21...
Code c++
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/sys/cdefs.h:227:1
48: note: expanded from macro '_deprecated_msg'
227 |     #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
|     |
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: rtyui
The string is not a palindrome.
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

EXPLORER OPEN EDITORS

```

.2.c U    C day42.c U    C day43.c U    C 43.2.c U    C day44.c U X
C++ > C day44.c > ...
1 #include <stdio.h>
2
3 int main() {
4     char str[200];
5     int i;
6     int spaces = 0, digits = 0, special = 0;
7
8     // Input string
9     printf("Enter a string: ");
10    gets(str); // Note: use fgets() for safety
11
12    // Traverse the string
13    for (i = 0; str[i] != '\0'; i++) {
14        if (str[i] == ' ')
15            spaces++;
16        else if (str[i] >= '0' && str[i] <= '9')
17            digits++;
18        else if ((str[i] >= 'A' && str[i] <= 'Z') || (str[i] >= 'a' && str[i] <= 'z'))
19            continue; // Ignore alphabets
20        else
21            special++;
22    }
23
24    // Display results
25    printf("Number of spaces: %d\n", spaces);
26    printf("Number of digits: %d\n", digits);
27    printf("Number of special characters: %d\n", special);
28
29    return 0;

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

```

227 | #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
g))
|
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: ertyu
Number of spaces: 0
Number of digits: 0
Number of special characters: 0
rishabhtrivedi@Rishabhs-MacBook-Air c++ %

```

macos-clang-x64 Prettier



The screenshot shows a Mac OS X desktop environment with the Visual Studio Code application open. The title bar indicates the file is named 'day45.c'.

EXPLORER sidebar:

- OPEN EDI... (413)
- day43.c (U)
- 43.2.c c++ (U)
- day44.c c... (U)
- day45.c c... (U)**
- 45.2.c c++ (U)
- day46.c c... (U)
- day47.c c++ (U)
- day48.c c... (U)
- day57.c c++ (U)
- day58.c c... (U)

VS sidebar:

- c++
 - day38 (U)
 - day38.c (U)
 - day40 (U)
 - day40.c (U)
 - day41 (U)
 - day41.c (U)
 - day42 (U)
 - day42.c (U)
 - day43 (U)
 - day43.c (U)
 - day44 (U)
 - day44.c (U)
 - day45.c (U)**
 - day46.c (U)
 - day47.c (U)
 - day48.c (U)
 - day49.c (U)
 - day50.c (U)
 - day51.2.c (U)
 - day51.c (U)
 - day52.c (U)

CODE tab:

```
int main() {
    int i, count = 0;

    // Input string
    printf("Enter a string: ");
    gets(str); // Note: use fgets() for safety

    // Input character to search
    printf("Enter the character to find frequency: ");
    scanf("%c", &ch);

    // Count frequency
    for (i = 0; str[i] != '\0'; i++) {
        if (str[i] == ch)
            count++;
    }

    // Display result
    printf("Frequency of '%c' = %d\n", ch, count);

    return 0;
}
```

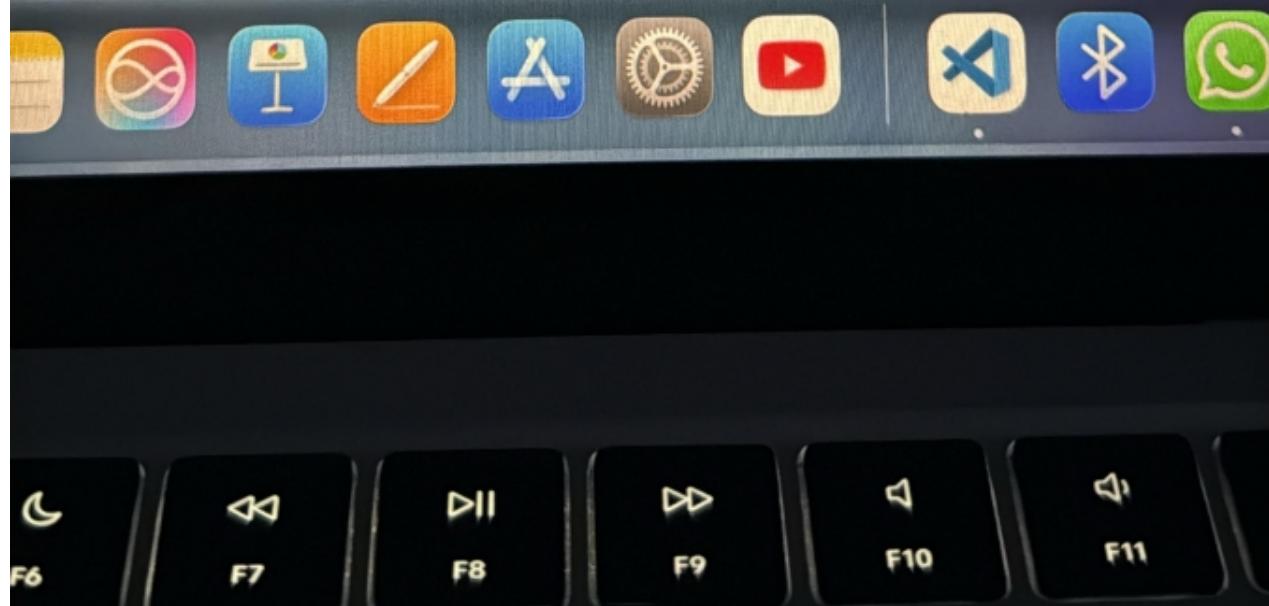
TERMINAL tab:

```
227 | #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
g))
|
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: ertyu
Number of spaces: 0
Number of digits: 0
Number of special characters: 0
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

Bottom status bar:

- c++ master*+ 0 △ 0
- vs/c++ Debug
- Indexing completed.
- macos-clang-x64 Prettier

```
... y43.c U C 43.2.c U C day44.c U C day45.c U C 45.2.c U X D ...  
DRS  
43.2.c U  
2.c c++ U  
44.c c... U  
45.c c... U  
2.c c++ U  
46.c c... U  
47.c c++ U  
48.c c... U  
57.c c++ U  
=o ~ ~ ..  
4.2 U  
4.2.c U  
5.2 U  
5.2.c U  
6.2 U  
6.2.c U  
7.2 U  
7.2.c U  
8.2 U  
8.2.c U  
d A  
d.c M  
dition A  
ray A  
ray.c M  
reakSt... A  
reakSt... A  
IByR... A  
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER  
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/sys/cdefs.h:227  
48: note: expanded from macro '_deprecated_msg'  
227 | #define _deprecated_msg(_msg) __attribute__((__deprecated__(  
g)))  
|  
1 warning generated.  
warning: this program uses gets(), which is unsafe.  
Enter a string: werty  
Toggled string: WERTY  
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```



100% 🔋 WiFi 🔍 Sun 2 Nov 9:15 AM

EXPLORER2.c U ⌂ day44.c U ⌂ day45.c U ⌂ 45.2.c U ⌂ day46.c U X ⌂ ...

EN EDITORS

c++ > ⌂ day46.c > ...

```
1 #include <stdio.h>
2
3 int main() {
4     char str[100], result[100];
5     int i, j = 0;
6
7     // Input string
8     printf("Enter a string: ");
9     gets(str); // Note: use fgets() for safety
10
11    // Remove vowels
12    for (i = 0; str[i] != '\0'; i++) {
13        if (str[i] != 'a' && str[i] != 'e' && str[i] != 'i' && str[i] != 'o' && str[i]
14            != 'u' &&
15            str[i] != 'A' && str[i] != 'E' && str[i] != 'I' && str[i] != 'O' && str[i]
16            != 'U') {
17            result[j++] = str[i]; // copy only non-vowel characters
18        }
19    }
20
21    result[j] = '\0'; // terminate the new string
22
23    // Display result
24    printf("String after removing vowels: %s\n", result);
25
26    return 0;
27 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER + ... | ☰ ×

/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/sys/cdefs.h:227: 48: note: expanded from macro '__deprecated_msg'
227 | #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
|
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: rty
String after removing vowels: rty
rishabhtrivedi@Rishabhs-MacBook-Air c++ %



```
c++ > C day47.c > ...
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str1[100], str2[100];
6     int count1[256] = {0}; // Frequency array for str1
7     int count2[256] = {0}; // Frequency array for str2
8     int i, flag = 0;
9
10    // Input two strings
11    printf("Enter first string: ");
12    gets(str1); // use fgets() for safety
13    printf("Enter second string: ");
14    gets(str2);
15
16    // If lengths are different, not anagrams
17    if (strlen(str1) != strlen(str2)) {
18        printf("The strings are not anagrams.\n");
19        return 0;
20    }
21
22    // Count frequency of each character
23    for (i = 0; str1[i] != '\0'; i++) {
24        count1[(unsigned char)str1[i]]++;
25        count2[(unsigned char)str2[i]]++;
26    }
27
28    // Compare frequency arrays
29    for (i = 0; i < 256; i++) {
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

```
48: note: expanded from macro '__deprecated_msg'
227 |         #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
|
2 warnings generated.
warning: this program uses gets(), which is unsafe.
Enter first string: r
Enter second string: t
The strings are not anagrams.
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

0 △ 0 vs/c++ ✘ Debug ⚙ ▶ ⚙ Indexing completed. macos-clang



```
... /45.c U  C 45.2.c U  C day46.c U  C day47.c U  C day48.c U X >
c++ > C day48.c > ...
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[200];
6     int start = 0, end = 0, len, i;
7     char temp;
8
9     // Input sentence
10    printf("Enter a sentence: ");
11    gets(str); // use fgets() for safety
12
13    len = strlen(str);
14
15    // Process each word
16    while (end <= len) {
17        // When space or end of string found -> reverse the word
18        if (str[end] == ' ' || str[end] == '\0') {
19            int left = start;
20            int right = end - 1;
21
22            // Reverse current word
23            while (left < right) {
24                temp = str[left];
25                str[left] = str[right];
26                str[right] = temp;
27                left++;
28                right--;
29            }
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER
48: note: expanded from macro '__deprecated_msg'
227 |         #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
g()))
|
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a sentence: rty
Sentence after reversing each word:
ytr
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
Indexing completed. macos-clang-x6
```



```
100% 🔋 ⌂ 8
← → ⌂ vs
57.c U ⌂ day58.c U ⌂ day59.c U ⌂ day60.c U ⌂ day49.c U X ⌂
c++ > ⌂ day49.c > ...
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char name[100];
6     int i;
7
8     // Input full name
9     printf("Enter your full name: ");
10    gets(name); // Use fgets() for safety
11
12    printf("Formatted name: ");
13
14    // Print first letter of each word as an initial,
15    // except for the last word (surname)
16    for (i = 0; name[i] != '\0'; i++) {
17        // If it's the first letter of a word
18        if (i == 0 && name[i] != ' ')
19            printf("%c. ", name[i]);
20        else if (name[i] == ' ' && name[i + 1] != '\0' && name[i + 1] != '\0')
21            // Check if next word is the surname (last word)
22            int j = i + 1;
23            while (name[j] != ' ' && name[j] != '\0')
24                j++;
25            if (name[j] == '\0') { // last word found -
26                printf("%s", &name[i + 1]);
27                break;
28            } else {
29                printf("%c. ", name[i + 1]);
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/sys/cdefs.h:227:
48: note: expanded from macro '__deprecated_msg'
227 |         #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
|
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter your full name: rtyu
Formatted name: r.
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
0 △ 0 ⌂ vs/c++ ⌂ Debug ⌂ Indexing completed. macos-clang->
```



```
C day50.c U X C day51.c U C day51.2.c U C day52.c U C day6 D ~
c++ > C day50.c > main()
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char date[20];
6     int day, month, year;
7
8     // Input date in dd/mm/yyyy format
9     printf("Enter date (dd/mm/yyyy): ");
10    gets(date); // Use fgets() for safety
11
12    // Extract day, month, and year
13    sscanf(date, "%d/%d/%d", &day, &month, &year);
14
15    // Array of month names
16    char *months[] = {"Jan", "Feb", "Mar", "Apr", "May", "Jun",
17                      "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"};
18
19    // Validate month
20    if (month < 1 || month > 12) {
21        printf("Invalid month entered!\n");
22        return 1;
23    }
24
25    // Display in new format
26    printf("Formatted date: %02d-%s-%d\n", day, months[month - 1], year);
27
28    return 0;
29 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

```
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/sys/cdefs.h:227:1
48: note: expanded from macro '__deprecated_msg'
227 |     #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
g))
|
1 warning generated.
warning: this program uses gets(), which is unsafe.
```

Enter date (dd/mm/yyyy): 10

Formatted date: 10-Jan-1868622192

rishabhtrivedi@Rishabhs-MacBook-Air c++ %



macos-clang-x64