

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[200];
5     int freq[26] = {0}, i;
6
7     printf("Enter a string: ");
8     gets(str);
9
10    for(i = 0; str[i] != '\0'; i++) {
11        if(str[i] >= 'a' && str[i] <= 'z') {
12            freq[str[i]-'a']++;
13            if(freq[str[i]-'a'] == 2) {
14                printf("First repeating lowercase: %c", str[i]);
15                return 0;
16            }
17        }
18    }
19
20    printf("No repeating lowercase alphabet");
21    return 0;
22 }
23
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + -

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile
tempCodeRunnerFile.c:8:5: warning: 'gets' is deprecated: This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly recommended that you use fgets(3) instead. [-Wdeprecated-declarations]
8 | gets(str);
 | ^
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/_stdio.h:260:1: note: 'gets' has been explicitly marked deprecated here
260 | __deprecated_msg("This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly recommended that you use fgets(3) instead.")
 | ^
/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: abcdbea
First repeating lowercase: b
rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[200], word[200], longest[200];
6     int i = 0, j = 0, max = 0;
7
8     printf("Enter a sentence: ");
9     if (!fgets(str, sizeof(str), stdin)) return 0;
10    int len = strlen(str);
11    if (len > 0 && str[len-1] == '\n') str[len-1] = '\0';
12
13    longest[0] = '\0';
14
15    while (str[i] != '\0') {
16        if (str[i] != ' ') {
17            word[j++] = str[i];
18        } else {
19            if (j > 0) {
20                word[j] = '\0';
21                if (j > max) { max = j; strcpy(longest, word); }
22                j = 0;
23            }
24        }
25        i++;
26    }
27 }
```

PROBLEMS 2OUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] {} x

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter a sentence: programming in c language
Longest word: programming
rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char a[100], b[100], temp[200];
6
7     printf("Enter first string: ");
8     gets(a);
9     printf("Enter second string: ");
10    gets(b);
11
12    strcpy(temp, a);
13    strcat(temp, a);
14
15    if(strstr(temp, b))
16        printf("Rotation");
17    else
18        printf("Not Rotation");
19
20    return 0;
21 }
22
```

PROBLEMS 2OUTPUTDEBUG CONSOLETERMINALPORTS

Code+⌵🗑️⋮🔍✕

rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
/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)))
|
tempCodeRunnerFile.c:10:5: warning: 'gets' is deprecated: This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly recommended that you use fgets(3) instead. [-Wdeprecated-declarations]
10 | gets(b);
|
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/_stdio.h:260:1: note: 'gets' has been explicitly marked deprecated here
260 | __deprecated_msg("This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly recommended that you use fgets(3) instead.")
|
/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)))
|
2 warnings generated.
warning: this program uses gets(), which is unsafe.
Enter first string: ABCD
Enter second string: CDAB
Rotation
rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[200], word[50];
5     int i = 0, j = 0;
6
7     printf("Enter a sentence: ");
8     gets(str);
9
10    while(str[i] != '\0') {
11        if(str[i] != ' ') {
12            word[j++] = str[i];
13        } else {
14            word[j] = '\0';
15            for(int k = j-1; k >= 0; k--) printf("%c", word[k]);
16            printf(" ");
17            j = 0;
18        }
19        i++;
20    }
21
22    word[j] = '\0';
23    for(int k = j-1; k >= 0; k--) printf("%c", word[k]);
24
25    return 0;
26 }
27
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | [] x

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
tempCodeRunnerFile.c:8:5: warning: 'gets' is deprecated: This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly recommended that you use fgets(3) instead. [-Wdeprecated-declarations]
8 | gets(str);
 | ^
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/_stdio.h:260:1: note: 'gets' has been explicitly marked deprecated here
260 | __deprecated_msg("This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly recommended that you use fgets(3) instead.")
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/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 sentence: hello world welcome
olleh dlrow emoclew
○ rajatsingh@Rajats-MacBook-Air ~ %

Welcome C C PROGRAMING PROJECT .c C #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[100];
5     int i;
6
7     printf("Enter full name: ");
8     gets(str);
9
10    if(str[0] != ' ') printf("%c.", str[0]);
11
12    for(i = 1; str[i] != '\0'; i++)
13        if(str[i] == ' ' && str[i+1] != ' ')
14            printf("%c.", str[i+1]);
15
16    return 0;
17 }
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code + - [] [x] [] [x]

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
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   8 |     gets(str);
     |     ^
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/_stdio.h:260:1: note: 'gets' has been explicitly marked deprecated here
 260 | __deprecated_msg("This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly
recommended that you use fgets(3) instead.")
     | ^
/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 full name: RAJAT SINGH
R.S.
rajatsingh@Rajats-MacBook-Air ~ %
```

```

1  #include <stdio.h>
2
3  int main() {
4      char str[100], surname[50];
5      int i, j = 0, lastStart = 0;
6
7      printf("Enter full name: ");
8      gets(str);
9
10     for(i = 0; str[i] != '\0'; i++)
11         if(str[i] == ' ')
12             lastStart = i + 1;
13
14     for(i = lastStart; str[i] != '\0'; i++)
15         surname[j++] = str[i];
16     surname[j] = '\0';
17
18     if(str[0] != ' ') printf("%c.", str[0]);
19
20     for(i = 1; str[i] != '\0'; i++)
21         if(str[i] == ' ' && i+1 != lastStart)
22             printf("%c.", str[i+1]);
23
24     printf("%s", surname);
25
26     return 0;
27 }
```

PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS

Code + - □ □ ... | [] ×

```

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile
tempCodeRunnerFile.c:8:5: warning: 'gets' is deprecated: This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly recommended that you use fgets(3) instead. [-Wdeprecated-declarations]
   8 |     gets(str);
     |     ^
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/_stdio.h:260:1: note: 'gets' has been explicitly marked deprecated here
 260 | __deprecated_msg("This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly recommended that you use fgets(3) instead.")
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 227 | #define __deprecated_msg(_msg) __attribute__((__deprecated__( _msg)))
     |
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter full name: RAHUL SINGH RAJPUT
R.S. RAJPUT
○ rajatsingh@Rajats-MacBook-Air ~ %
```


WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char buf[32];
5     int d, m, y;
6     printf("Enter date (dd/04/yyyy): ");
7     if (!fgets(buf, sizeof(buf), stdin)) return 0;
8
9     if (sscanf(buf, " %d / %d / %d", &d, &m, &y) != 3) {
10         printf("Invalid format\n");
11         return 0;
12     }
13
14     if (m != 4) {
15         printf("Month is not 04\n");
16         return 0;
17     }
18
19     if (d < 1 || d > 31 || y < 0) {
20         printf("Invalid date\n");
21         return 0;
22     }
23
24     printf("Output: %02d-Apr-%04d\n", d, y);
25     return 0;
26 }
27
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + -

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter date (dd/04/yyyy): 23/04/2024
Output: 23-Apr-2024
rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[100];
5     int i, j, k;
6
7     printf("Enter a string: ");
8     gets(str);
9
10    for(i = 0; str[i] != '\0'; i++) {
11        for(j = i; str[j] != '\0'; j++) {
12            for(k = i; k <= j; k++)
13                printf("%c", str[k]);
14            printf("\n");
15        }
16    }
17
18    return 0;
19 }
20
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code+⌵🗑️⋮|⌂✕

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227 | #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
 |

1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: ABC
A
AB
ABC
B
BC
C

rajatsingh@Rajats-MacBook-Air ~ %