The element 3 appears 3 times.

```c
#include <stdio.h>

int countOccurrences(int arr[], int size, int element) {
    int count = 0;
    for (int i = 0; i < size; i++) {
        if (arr[i] == element) {
            count++;
        }
    }
    return count;
}

int main() {
    int arr[] = {3, 7, 3, 9, 3, 5};
    int size = sizeof(arr) / sizeof(arr[0]);
    int element = 3;

    printf("The element %d appears %d times.\n", element, countOccurrences(arr, size, element));
    return 0;
}
```

```
Enter a string: 5
The length of the string is: 2
```

```c
#include <stdio.h>

int stringLength(char *str) {
    int length = 0;
    while (*str != '\0') {
        length++;
        str++;
    }
    return length;
}

int main() {
    char str[100];
    printf("Enter a string: ");
    fgets(str, sizeof(str), stdin);

    printf("The length of the string is: %d\n", stringLength(str));
    return 0;
}
```

```
Before swap: a = 5, b = 10
After swap: a = 10, b = 5
```

```c
#include <stdio.h>

void swap(int *x, int *y) {
    int temp = *x;
    *x = *y;
    *y = temp;
}

int main() {
    int a = 5, b = 10;
    printf("Before swap: a = %d, b = %d\n", a, b);
    swap(&a, &b);
    printf("After swap: a = %d, b = %d\n", a, b);
    return 0;
}
```

```
The minimum value is: 1
The maximum value is: 8
```

```c
    printf("The minimum value is: %d\n", min);
    printf("The maximum value is: %d\n", max);

    return 0;
}
```

```c
#include <stdio.h>

void findMinMax(int *arr, int size,
int *min, int *max) {
    *min = *arr;
    *max = *arr;
    for (int i = 1; i < size; i++) {
        if (*(arr + i) < *min) {
            *min = *(arr + i);
        }
        if (*(arr + i) > *max) {
            *max = *(arr + i);
        }
    }
}

int main() {
    int arr[] = {3, 5, 7, 2, 8, 1};
    int size = sizeof(arr) /
sizeof(arr[0]);
    int min, max;

    findMinMax(arr, size, &min, &max);

    printf("The minimum value is:
%d\n", min);
```

The sum of the array elements is: 150

```c
#include <stdio.h>

int sumArray(int *arr, int size) {
    int sum = 0;
    for (int i = 0; i < size; i++) {
        sum += *(arr + i);
    }
    return sum;
}

int main() {
    int arr[] = {10, 20, 30, 40, 50};
    int size = sizeof(arr) /
sizeof(arr[0]);
    printf("The sum of the array
elements is: %d\n", sumArray(arr,
size));
    return 0;
}
```

StableGoodMp3

PR

```c
1   #include <stdio.h>
2
3   int main() {
4       int i = 1, count = 0;
5       do {
6           if (i % 2 != 0) {
7               printf("%d ", i);
8               count++;
9           }
10          i++;
11      } while (count < 10);
12      return 0;
13  }
```

AI {✓} C   Ln 13, Col 2 • Spaces: 4 History ⟲

C main.c

▶ Run

StableGoodMp3 ✓

PR

```c
1   #include <stdio.h>
2
3   int main() {
4       int i = 1, sum = 0;
5       do {
6           sum += i;
7           i++;
8       } while (i <= 10);
9       printf("Sum of first 10
    natural numbers: %d\n", sum);
10      return 0;
11  }
```

AI {✓} C   Ln 11, Col 2 ● Spaces: 4 History ⟲

C main.c ⋮

▶ Run

```c
1  // Online C compiler to run C
      program online
2  #include <stdio.h>
3  int main() {
4      printf("bindhu t j\n");
5  int num=123, sum=0;
6  while(num!=0){
7  num/=10;
8  }
9  printf("sum of digits=%d\n",sum);
10      return 0;
11  }
```

Run

Programiz
C Online Compiler

Programiz PRO

main.c   Output   ☾ ⋖ ▷

```c
1   #include<stdio.h>
2 ▾ struct Student {
3       char name [50]
4       int roll;
5       float marks;
6   };
7 ▾ int main() {
8       struct student s1;
9       Printf("Enter name;");
10      scanf("%s",s1.name);
11      printf("Enter roll number;");
12      scanf("%d",&s1,roll);
13      printf("Enter marks;");
14      scanf("%f",&s1.marks);
15      printf("\nStudent Details;\n");
16      printf("Name:%s\nRoll:%d\nMark.2f\"
               ,s1.name,s1.roll,s1.marks);
17      return0;
18  }
```

Run

||| ○ ‹

Programiz
C Online Compiler

Programiz PRO

main.c | Output | 🌙 ⚓ ▷

```c
1   #include<stdio.h>
2
3   struct student {
4       char name[50];
5       int age;
6       char gender[10];
7       char Department[10];
8       char college [10];
9   };
10
11  int main(){
12      struct student s1;
13      printf("Enter name: ");
14      scanf("s%,s1.name);
15
16      printf"Enter age: ");
17      scanf("%d",&s1.age);
18
19      printf"Enter gender");
20      scanf("% &s1.gender");
21
22      printf("Enter department:");
23      scanf("%s",&s1.department);
24
25      printf("Enter college nam      Run
26      scanf("%s",&s1.college);
27      printf("\n student details\n").
```

Programiz
C Online Compiler

Programiz PRO

| main.c | Output | 🌙 ⚹ ▷ |

```c
18
19      printf"Enter gender");
20      scanf("% &s1.gender");

21
22      printf("Enter department:");
23      scanf("%s",&s1.department);

24
25      printf("Enter college name:");
26      scanf("%s",&s1.college);
27      printf("\n student details\n");
28      printf("Name:%s\nAge :%d\n Gender
            :%s\nDepartment: %s\ncollege
            :%s\n,s1.name,s1.age ,s1
            .gender,s1.department,s1
            .college");

29
30      return 0;
31  }
32
33
34
35
36
37
38                                          Run
39
```

||| ○ ‹

☰   **Programiz**   **Programiz PRO**
C Online Compiler

main.c   Output   ☾   ⁑   ▷

```c
1   #include <stdio.h>
2
3   struct Employees;
4       char name[50];
5       int id;
6       float salary;
7   };
8   int main() {
9       struct Employee employees[2];
10      for(int i=0;i<2;i++) {
11          printf("Enter details for
                  Employee %d;\n",i+1);
12          printf("Name;");
13          scanf("%s",employees[i].name);
14          printf("ID:");
15          scanf("%d",&employees[i].id);
16          printf("Salary:");
17          scanf("%f",&employees[i].salary
                  );
18      }
19  printf("\nEmployee Details;\n");
20  for(int i=0;i<2 i++){
21    printf("Name; %s,ID;%d,salary:%2f\n"
              ,employees[i],Name,employee[i].Id
              . employees[i].salary);
22  }
```

Run

||| ○   ‹

main.c   Output

```c
1   #include <stdio.h>
2
3   struct address {
4       char city[50];
5       int pin;
6   };
7   struct person {
8       char named[50];
9       struct address addr;
10  };
11  int main() {
12      Struct person p;
13      printf("Enter Name:");
14      scanf("%s".p name");
15      printf("Enter city:");
16      scanf("%p".addr.city");
17      printf("Enter pin:");
18      scanf("%d".&p.addr.pin);
19      printf("\nperson Details:\n");
20
21      pprintf"name:%\ncity: %\n",p.name,p
           .addr.city.p.addr.pin);
22
23      return 0;
24  }
25
26
27
```

Run

Programiz
C Online Compiler

Programiz PRO

| main.c | Output | ☾   ⌁   ▷ |

```c
1   #include <stdio.h>
2
3   struct address {
4       char city[50];
5       int pin;
6   };
7   struct person{
8       char named[50];
9       struct address addr;
10  };
11  int main() {
12      Struct person p;
13   printf("Enter Name:");
14   scanf("%s".p name");
15   printf("Enter city:");
16   scanf("%p".addr.city");
17   printf("Enter pin:");
18   scanf("%d".&p.addr.pin);
19   printf("\nperson Details:\n");
20
21   printf("name:%\ncity: %\n",p.name,p
           .addr.city.p.addr.pin);
22
23   return 0;
24  };
25
26
27
28
```

Run

main.c   Output

Enter Name:sara
Enter city:sira
Enter pin:572137

person Details:
name:%
city: %

=== Code Execution Successful ===

| main.c | Output | | ☾ ⤙ ▷ |

```c
1   #include <stdio.h>
2
3   struct address {
4       char city[50];
5       int pin;
6   };
7   struct person{
8       char name[50];
9       struct address addr;
10  };
11  int main() {
12      struct person p;
13   printf("Enter Name:");
14   scanf("%s",p.name);
15   printf("Enter city:");
16   scanf("%s",p.addr.city);
17   printf("Enter pin:");
18   scanf("%s",p.addr.pin);
19   printf("\nperson Details:\n");
20
21   printf("name:%\ncity: %\n",p.name,p
         .addr.city,p.addr.pin);
22
23      return 0;
24  }
25
26                                    Run
27
```