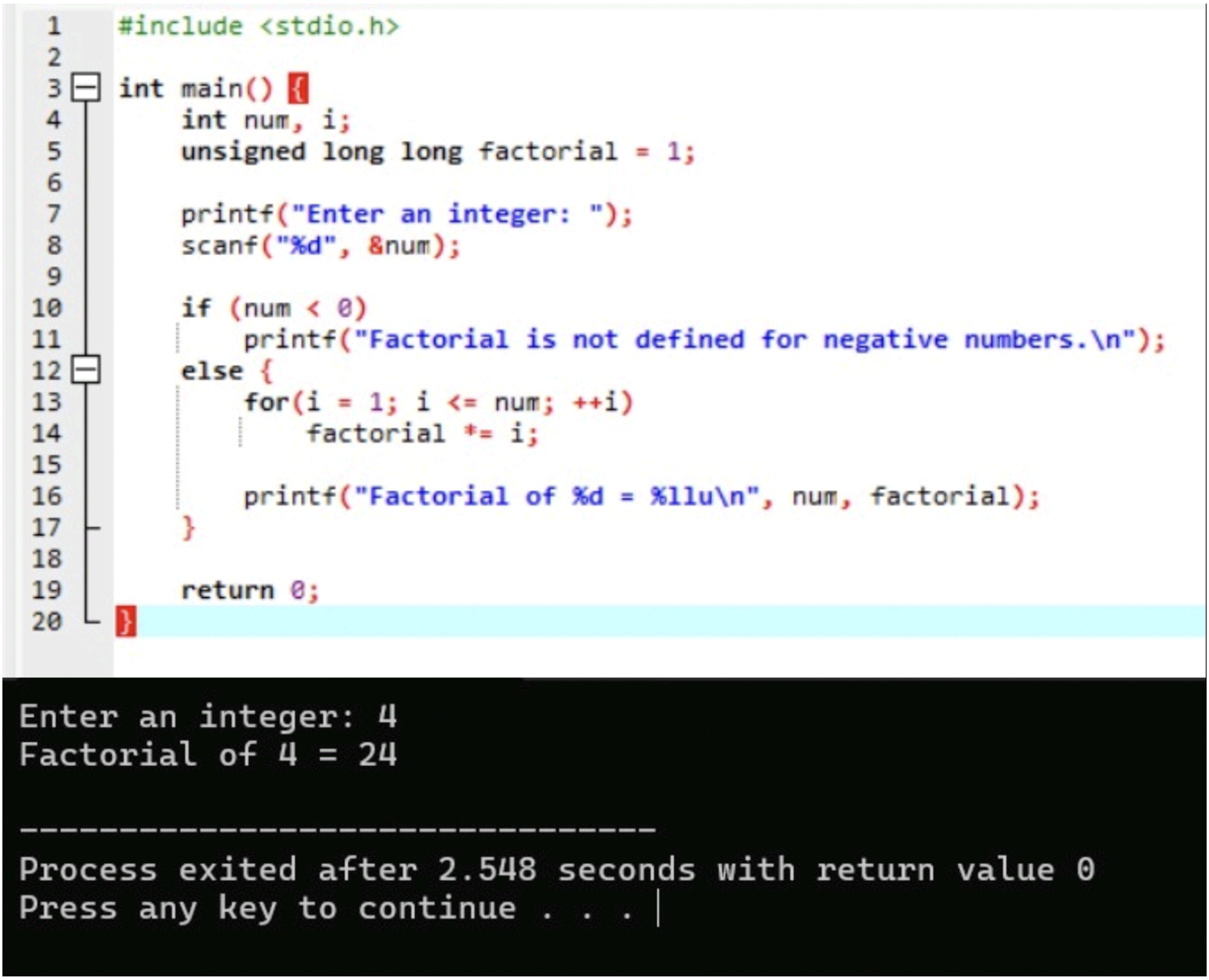
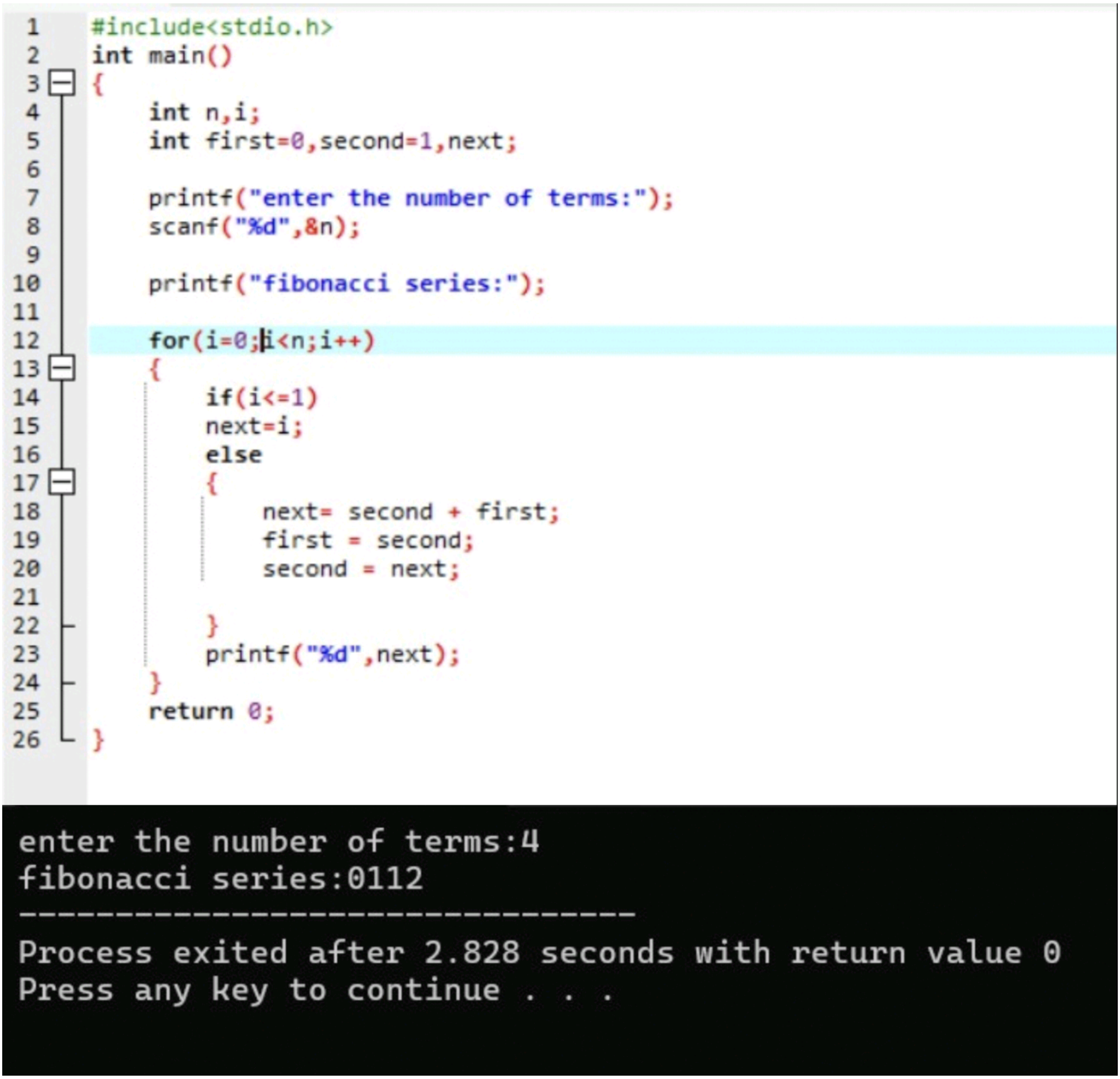


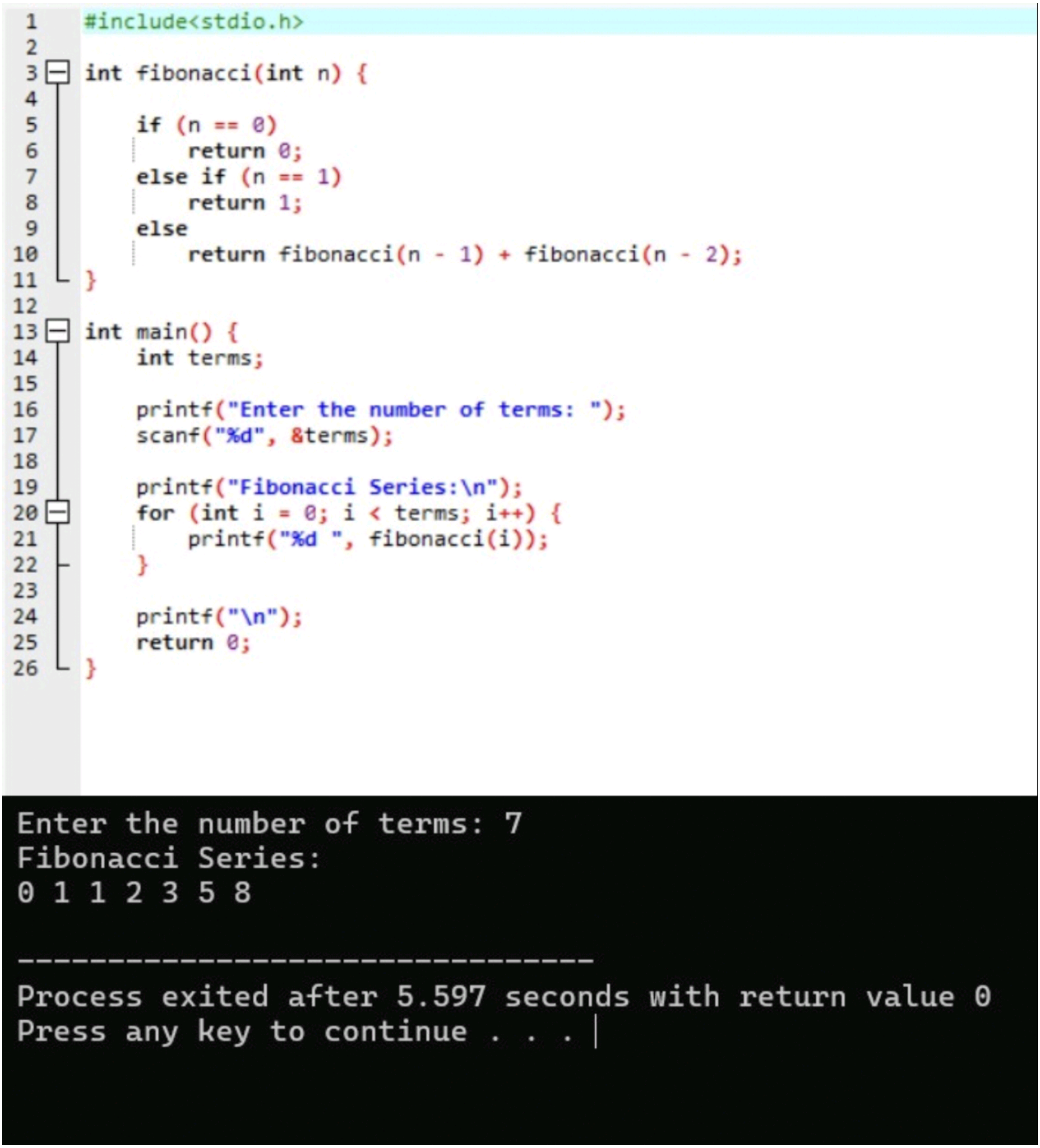
```c
#include <stdio.h>

int main() {
    int num, i;
    unsigned long long factorial = 1;

    printf("Enter an integer: ");
    scanf("%d", &num);

    if (num < 0)
        printf("Factorial is not defined for negative numbers.\n");
    else {
        for(i = 1; i <= num; ++i)
            factorial *= i;

        printf("Factorial of %d = %llu\n", num, factorial);
    }

    return 0;
}
```

```
Enter an integer: 4
Factorial of 4 = 24

--------------------------------
Process exited after 2.548 seconds with return value 0
Press any key to continue . . .
```



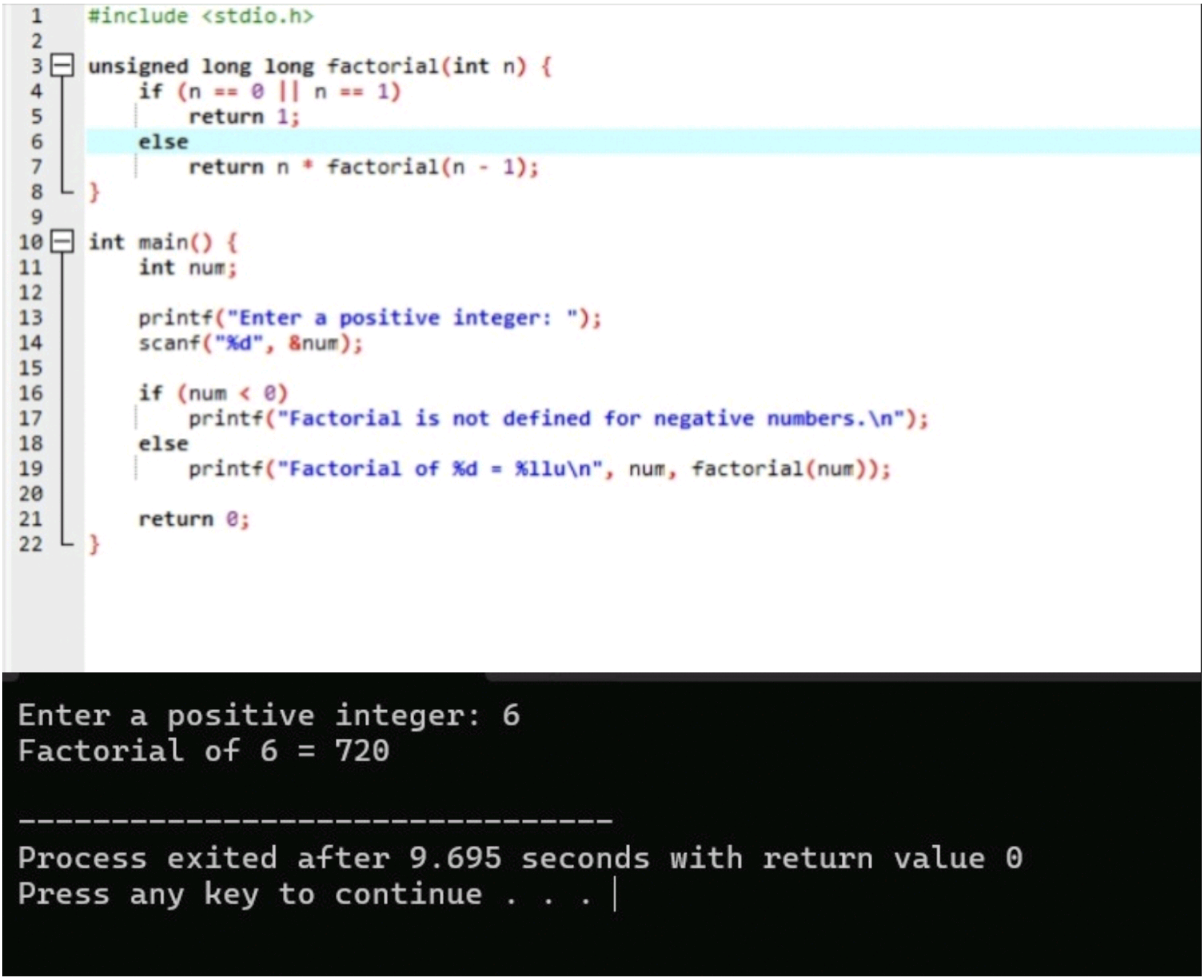
```c
#include<stdio.h>
int main()
{
    int n,i;
    int first=0,second=1,next;

    printf("enter the number of terms:");
    scanf("%d",&n);

    printf("fibonacci series:");

    for(i=0;i<n;i++)
    {
        if(i<=1)
        next=i;
        else
        {
            next= second + first;
            first = second;
            second = next;

        }
        printf("%d",next);
    }
    return 0;
}
```

```
enter the number of terms:4
fibonacci series:0112
--------------------------------
Process exited after 2.828 seconds with return value 0
Press any key to continue . . .
```



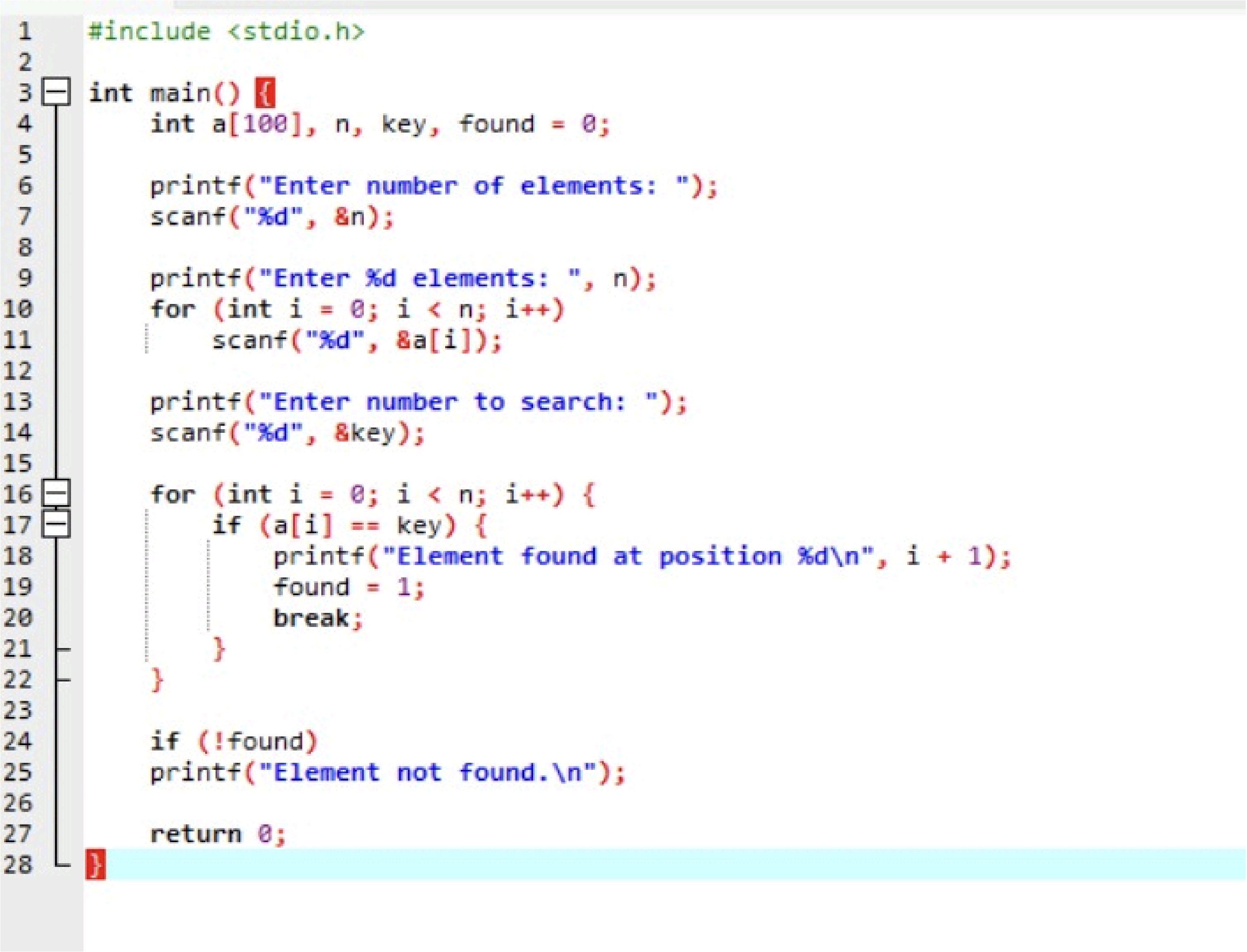
```c
#include<stdio.h>

int fibonacci(int n) {

    if (n == 0)
        return 0;
    else if (n == 1)
        return 1;
    else
        return fibonacci(n - 1) + fibonacci(n - 2);
}

int main() {
    int terms;

    printf("Enter the number of terms: ");
    scanf("%d", &terms);

    printf("Fibonacci Series:\n");
    for (int i = 0; i < terms; i++) {
        printf("%d ", fibonacci(i));
    }

    printf("\n");
    return 0;
}
```

```
Enter the number of terms: 7
Fibonacci Series:
0 1 1 2 3 5 8

--------------------------------
Process exited after 5.597 seconds with return value 0
Press any key to continue . . .
```

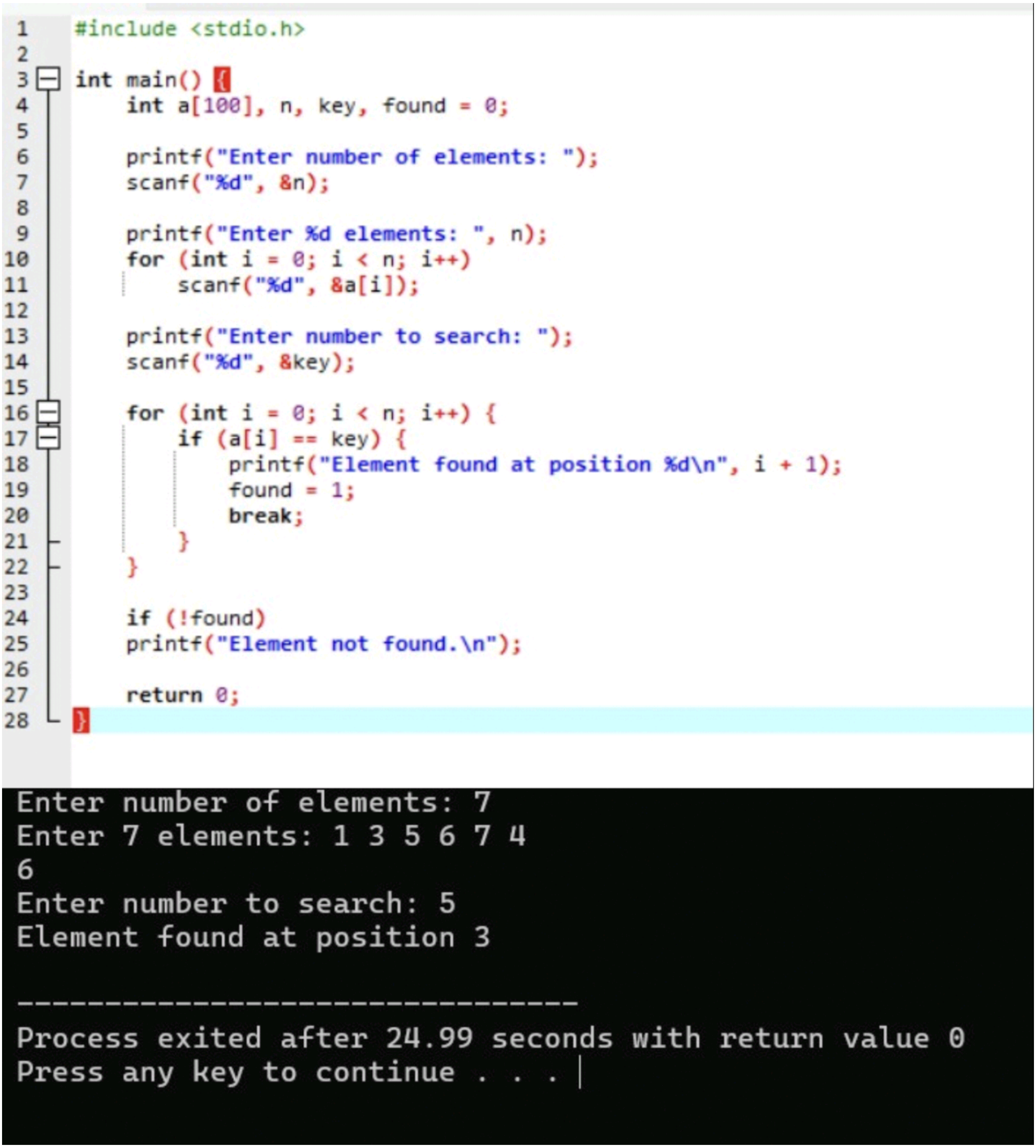


```c
#include <stdio.h>

unsigned long long factorial(int n) {
    if (n == 0 || n == 1)
        return 1;
    else
        return n * factorial(n - 1);
}

int main() {
    int num;

    printf("Enter a positive integer: ");
    scanf("%d", &num);

    if (num < 0)
        printf("Factorial is not defined for negative numbers.\n");
    else
        printf("Factorial of %d = %llu\n", num, factorial(num));

    return 0;
}
```

```
Enter a positive integer: 6
Factorial of 6 = 720

--------------------------------
Process exited after 9.695 seconds with return value 0
Press any key to continue . . .
```



```c
#include <stdio.h>

int main() {
    int a[100], n, key, found = 0;

    printf("Enter number of elements: ");
    scanf("%d", &n);

    printf("Enter %d elements: ", n);
    for (int i = 0; i < n; i++)
        scanf("%d", &a[i]);

    printf("Enter number to search: ");
    scanf("%d", &key);

    for (int i = 0; i < n; i++) {
        if (a[i] == key) {
            printf("Element found at position %d\n", i + 1);
            found = 1;
            break;
        }
    }

    if (!found)
    printf("Element not found.\n");

    return 0;
}
```



```c
#include <stdio.h>

int main() {
    int a[100], n, key, found = 0;

    printf("Enter number of elements: ");
    scanf("%d", &n);

    printf("Enter %d elements: ", n);
    for (int i = 0; i < n; i++)
        scanf("%d", &a[i]);

    printf("Enter number to search: ");
    scanf("%d", &key);

    for (int i = 0; i < n; i++) {
        if (a[i] == key) {
            printf("Element found at position %d\n", i + 1);
            found = 1;
            break;
        }
    }

    if (!found)
    printf("Element not found.\n");

    return 0;
}
```

```
Enter number of elements: 7
Enter 7 elements: 1 3 5 6 7 4
6
Enter number to search: 5
Element found at position 3

--------------------------------
Process exited after 24.99 seconds with return value 0
Press any key to continue . . .
```