here X matrix multiple.c X

```c
#include <stdio.h>

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

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

    // Check for negative input
    if (n < 0) {
        printf("Factorial is not defined for negative numbers.\n");
    } else {
        for (i = 1; i <= n; i++) {
            factorial *= i;
        }
        printf("Factorial of %d = %llu\n", n, factorial);
    }

    return 0;
}
```

"C:\Users\hi\OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.exe"

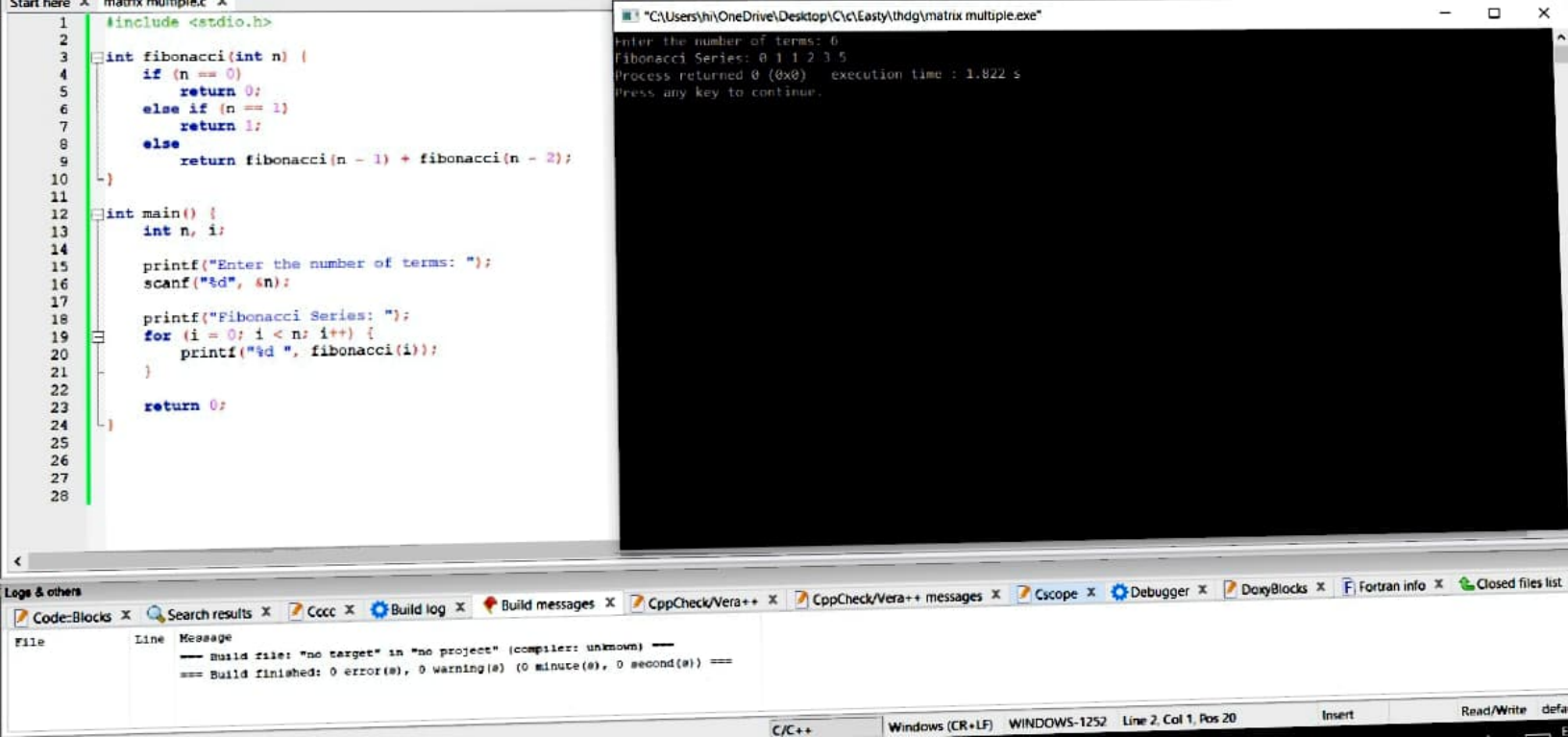
```
Enter a positive integer: 4
Factorial of 4 = 24

Process returned 0 (0x0)   execution time : 3.487 s
Press any key to continue.
```

matrix multiple.c

```c
#include <stdio.h>

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

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

    printf("Enter %d elements:\n", n);
    for (i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

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

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

    if (!found) {
        printf("Element %d not found in the array.\n", key);
    }

    return 0;
}
```

"C:\Users\hi\OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.exe"

```
Enter the number of elements: 5
Enter 5 elements:
65 78 34 54 97
Enter the number to search: 10
Element 10 not found in the array.

Process returned 0 (0x0)   execution time : 17.188 s
Press any key to continue.
```


Start here
matrix multiple.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 n, i;
printf("Enter the number of terms: ");
scanf("%d", &n);
printf("Fibonacci Series: ");
for (i = 0; i < n; i++) {
printf("%d ", fibonacci(i));
}
return 0;
}
"C:\Users\hi\OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.exe"
Enter the number of terms: 6
Fibonacci Series: 0 1 1 2 3 5
Process returned 0 (0x0) execution time : 1.822 s
Press any key to continue.
Logs & others
Code::Blocks
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
CppCheck/Vera++ messages
Cscope
Debugger
DoxyBlocks
Fortran info
Closed files list
File
Line
Message
--- Build file: "no target" in "no project" (compiler: unknown) ---
=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 2, Col 1, Pos 20
Insert
Read/Write

matrix multiple.c

```c
#include <stdio.h>

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 = %lld\n", num, factorial(num));

    return 0;
}
```

"C:\Users\hi\OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.exe"

```
Enter a positive integer: 4
Factorial of 4 = 24

Process returned 0 (0x0)   execution time : 12.267 s
Press any key to continue.
```

Search results | Cccc | Build log | Build messages | CppCheck/Vera++ | CppCheck/Vera++ messages | Cscope | Debugger | DoxyBlocks | Fortran info | Closed files list | Thread search

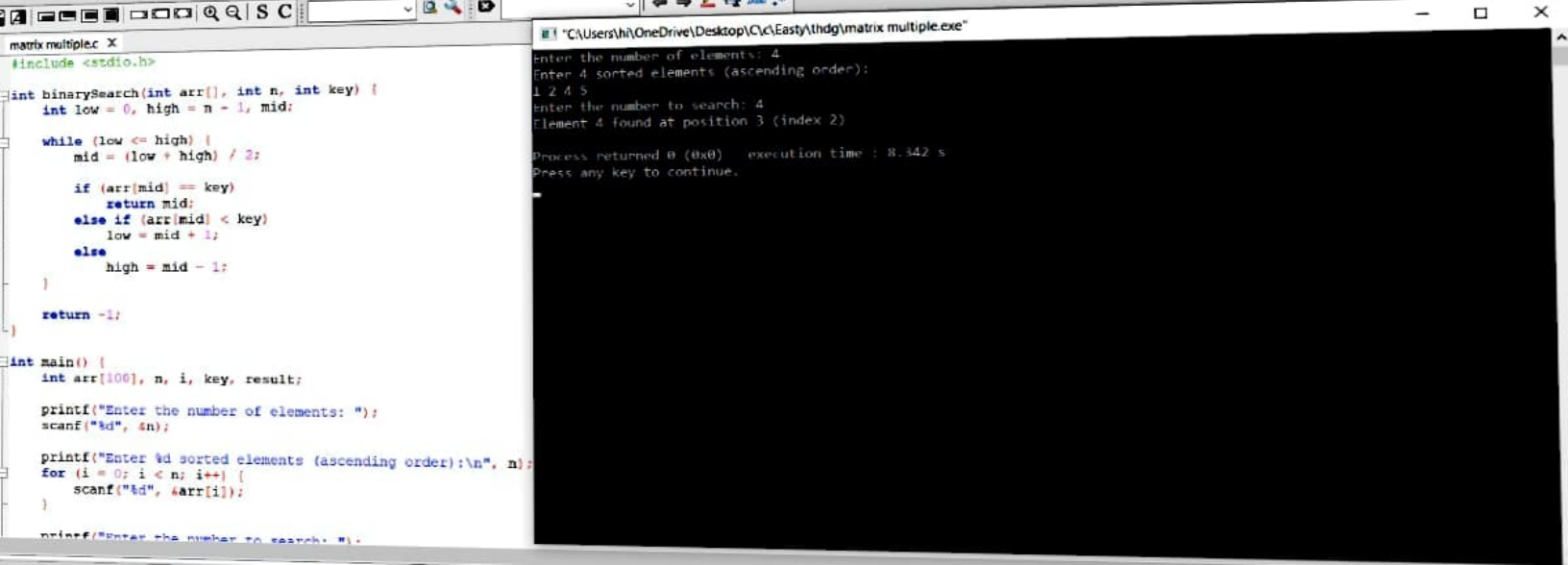
Line	Message
	=== Build file: "no target" in "no project" (compiler: unknown) ===
	=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.c | C/C++ | Windows (CR+LF) | WINDOWS-1252 | Line 8, Col 37, Pos 146 | Insert | Read/Write | default

Type here to search

32°C Partly cloudy

ENG IN 9:01 PM 6/17/2025



matrix multiple.c

```c
#include <stdio.h>

int binarySearch(int arr[], int n, int key) {
    int low = 0, high = n - 1, mid;

    while (low <= high) {
        mid = (low + high) / 2;

        if (arr[mid] == key)
            return mid;
        else if (arr[mid] < key)
            low = mid + 1;
        else
            high = mid - 1;
    }

    return -1;
}

int main() {
    int arr[100], n, i, key, result;

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

    printf("Enter %d sorted elements (ascending order):\n", n);
    for (i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    printf("Enter the number to search: ");
```

"C:\Users\hi\OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.exe"

```
Enter the number of elements: 4
Enter 4 sorted elements (ascending order):
1 2 4 5
Enter the number to search: 4
Element 4 found at position 3 (index 2)

Process returned 0 (0x0)   execution time : 8.342 s
Press any key to continue.
```

```c
#include <stdio.h>

#define MAX 100

int array[MAX];
int size = 0;


void insert(int pos, int val) {
    if (size >= MAX) {
        printf("Array is full! Cannot insert.\n");
        return;
    }
    if (pos < 0 || pos > size) {
        printf("Invalid position!\n");
        return;
    }

    for (int i = size; i > pos; i--) {
        array[i] = array[i - 1];
    }
    array[pos] = val;
    size++;
    printf("Element inserted successfully.\n");
}
void delete(int pos) {
    if (size == 0) {
        printf("Array is empty! Cannot delete.\n");
        return;
    }
    if (pos < 0 || pos >= size) {
```

"C:\Users\hi\OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.exe"

```
--- Array Operations Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter position (0 to 0): 0
Enter value to insert: 4
Element inserted successfully.

--- Array Operations Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice:
```

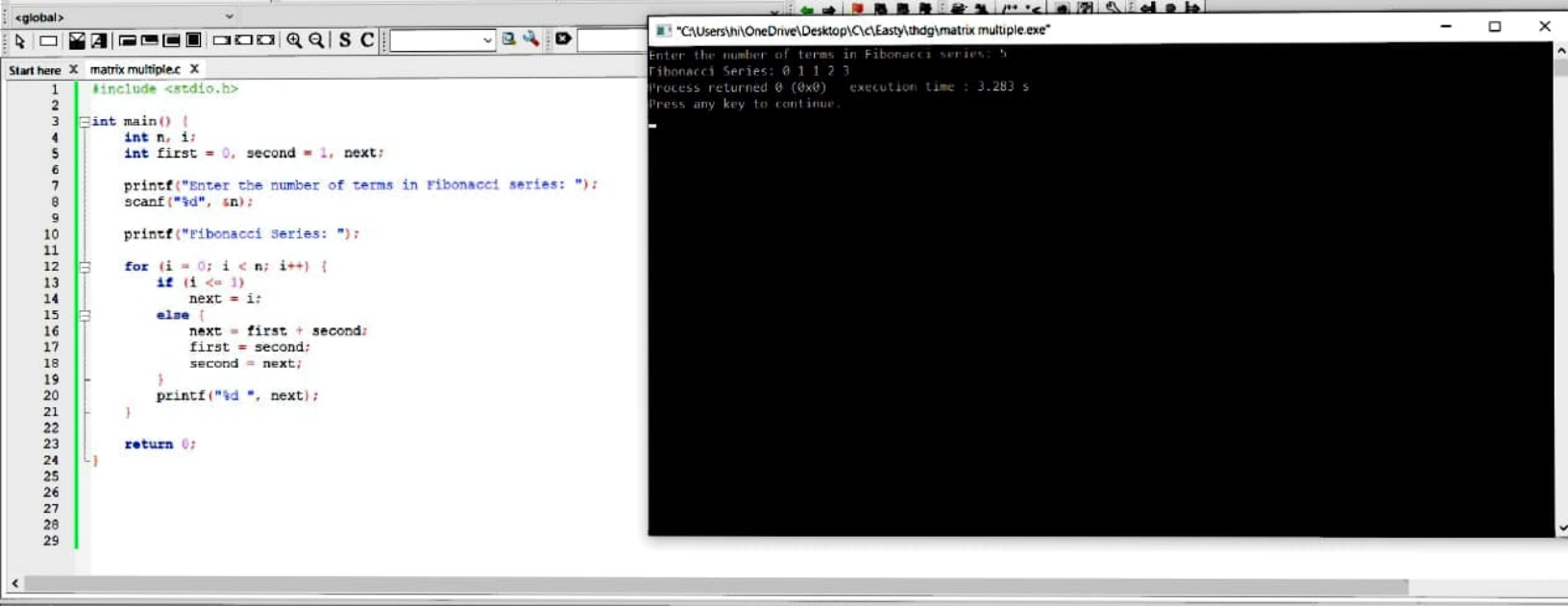
```c
#include <stdio.h>
#include <stdlib.h>

struct Node {
    int data;
    struct Node* next;
};

struct Node* head = NULL;

void insert(int value) {
    struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
    newNode->data = value;
    newNode->next = NULL;

    if (head == NULL) {
        head = newNode;
    } else {
        struct Node* temp = head;
        while (temp->next != NULL)
            temp = temp->next;
        temp->next = newNode;
    }

    printf("Inserted %d successfully.\n", value);
}

void delete(int value) {
    struct Node *temp = head, *prev = NULL;

    // if head node itself holds the value
```

Logs & others

Code::Blocks | Search results | Cccc | Build log | Build messages | CppCheck/Vera++ | CppCheck/

File	Line	Message
		--- Build file: "no target" in "no project" (compiler: unknown) ---
		=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

C/C++


Start here
matrix multiple.c
#include <stdio.h>
int main() {
int n, i;
int first = 0, second = 1, next;
printf("Enter the number of terms in Fibonacci series: ");
scanf("%d", &n);
printf("Fibonacci Series: ");
for (i = 0; i < n; i++) {
if (i <= 1)
next = i;
else {
next = first + second;
first = second;
second = next;
}
printf("%d ", next);
}
return 0;
}
"C:\Users\hi\OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.exe"
Enter the number of terms in Fibonacci series: 5
Fibonacci Series: 0 1 1 2 3
Process returned 0 (0x0) execution time : 3.283 s
Press any key to continue.

```c
int main() {
    int n, i, num;

    printf("Enter how many numbers you want to check: ");
    scanf("%d", &n);

    printf("Enter %d numbers:\n", n);

    for (i = 0; i < n; i++) {
        scanf("%d", &num);

        if (num % 2 == 0) {
            printf("%d is Even\n", num);
        } else {
            printf("%d is Odd\n", num);
        }
    }

    return 0;
}
```

```
"C:\Users\hi\OneDrive\Desktop\C\c\Easty\thdg\matrix multiple.exe"
Enter how many numbers you want to check: 2
Enter 2 numbers:
4 5
4 is Even
5 is Odd

Process returned 0 (0x0)   execution time : 7.605 s
Press any key to continue.
```