

Description:

C program that Finds the Fibonacci Series, and reports execution time using clock().

Source Code:

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

```
#include <time.h>
```

```
int main() {
```

```
    int n, t1 = 0, t2 = 1, nextterm;
```

```
    clock_t start, end;
```

```
    double cpu_time_used;
```

```
    start = clock();
```

```
    printf("Enter the number of terms: ");
```

```
    scanf("%d", &n);
```

```
    printf("Fibonacci Series: %d %d ", t1, t2);
```

```
    for (int i = 3; i <= n; i++) {
```

```
        nextterm = t1 + t2;
```

```
        printf("%d ", nextterm);
```

```
        t1 = t2;
```

```
        t2 = nextterm;
```

```
}
```

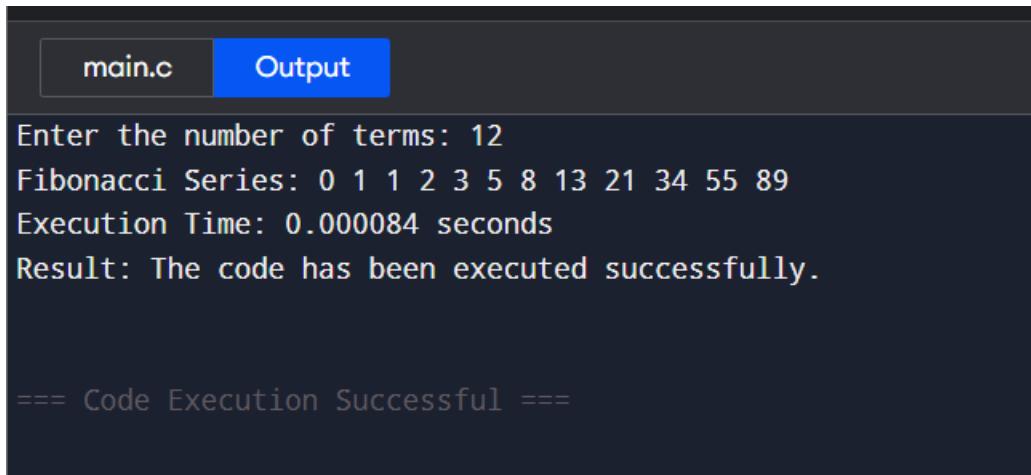
```
    end = clock();
```

```
cpu_time_used = ((double)(end - start)) / CLOCKS_PER_SEC;

printf("\nExecution Time: %f seconds", cpu_time_used);
printf("\nResult: The code has been executed successfully.\n");

return 0;
}
```

Output:



The screenshot shows a terminal window with two tabs: "main.c" and "Output". The "Output" tab is selected, displaying the following text:

```
Enter the number of terms: 12
Fibonacci Series: 0 1 1 2 3 5 8 13 21 34 55 89
Execution Time: 0.000084 seconds
Result: The code has been executed successfully.

==== Code Execution Successful ===
```