main.c

Share Run

```c
#include <stdio.h>
int main() {
    int n, i;
    int arr[100];
    printf("Enter number of elements: ");
    scanf("%d", &n);
    printf("Enter elements:\n");
    for(i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    int max = arr[0];
    int min = arr[0];

    for(i = 1; i < n; i++) {
        if(arr[i] > max)
            max = arr[i];

        if(arr[i] < min)
            min = arr[i];
    }
    printf("Largest element = %d\n", max);
    printf("Smallest element = %d\n", min);

    return 0;
}
```

Output

```
Enter number of elements: 3
Enter elements:
1
2
3
Largest element = 3
Smallest element = 1


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

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```c
#include <stdio.h>

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

int main() {
    int num;

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

    printf("Factorial = %d", factorial(num));

    return 0;
}
```

Output

```
Enter a number: 10
Factorial = 3628800

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

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```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;

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

    printf("Fibonacci number = %d", fibonacci(n));

    return 0;
}
```

Output

```
Enter n: 10
Fibonacci number = 55

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