

## Aim

To write a C program to find the factorial using recursion.

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## Algorithm

1. Start program.
  2. Define recursive function `fact(n)`:
    - If `n == 0 || n == 1` return 1.
    - Else return `n * fact(n-1)`.
  3. Call `fact(n)` and print result.
  4. End program.
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## Code

```
#include <stdio.h>

long long fact(int n) {
    if (n <= 1)
        return 1;
    return n * fact(n - 1);
}

int main() {
    int n;
    printf("Enter a number: ");
    scanf("%d", &n);
    printf("Factorial of %d = %lld\n", n, fact(n));
    return 0;
}
```

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### Sample Output

```
Enter a number: 6  
Factorial of 6 = 720
```

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

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### Result

The program computes factorial recursively.