

① Execution starts with main function

② Call factorial, with argument 4

③ The value of number, which is 4, got assigned to new variable named n

④ return value of fact, which is 24 back to the caller function, which is main

⑤ factorial(number) is evaluated as 24

⑥ result stores 24

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

```
int factorial(int n);
```

```
int main(void) {
```

```
    int number = 4;
```

```
    int result = factorial(number);
```

```
    printf("Factorial of %d: %d.\n", number, result);
```

```
    return 0;
```

```
}
```

```
int factorial(int n) {
```

```
    int fact = 1;
```

```
    for (int i = 1; i <= n; i++) {
```

```
        fact = fact * i;
```

```
    }
```

```
    return fact;
```

```
}
```