

```
def fibonacci_iterative(n):
```

```
    if n <= 1:
```

```
        return n
```

```
    a, b = 0, 1
```

```
    for i in range(2, n + 1):
```

```
        a, b = b, a + b
```

```
    return b
```

```
def fibonacci_recursive(n):
```

```
    if n <= 1:
```

```
        return n
```

```
    return fibonacci_recursive(n - 1) + fibonacci_recursive(n - 2)
```

```
def main():
```

```
    n = int(input("Enter the number of terms: "))
```

```
    print("\nFibonacci using Iteration:")
```

```
    for i in range(n):
```

```
        print(fibonacci_iterative(i), end=" ")
```

```
    print("\n\nFibonacci using Recursion:")
```

```
    for i in range(n):
```

```
        print(fibonacci_recursive(i), end=" ")
```

```
if __name__ == "__main__":
```

```
    main()
```