

```
def is_power_of_two(n: int) -> bool:
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    if n <= 0:
```

```
        return False
```

```
    return (n & (n - 1)) == 0
```

```
# Example usage:
```

```
print(is_power_of_two(1)) # Output: True
```

```
print(is_power_of_two(16)) # Output: True
```

```
print(is_power_of_two(3)) # Output: False
```