Round Down

Given some power of two `powerOfTwo` and a positive number `num`, round `num` down to the nearest multiple of `powerOfTwo`. Assume `powerOfTwo` is greater than or equal to 1. You may use only bit operations and one subtraction/addition operation.

Examples:

```
1  roundDown(8, 53) -> 48
2  roundDown(16, 90) -> 80
3  roundDown(1, 90) -> 90
```

```
1  public int roundDown(int powerOfTwo, int num) {
2
3      return _____;
4  }
```

Solution:

```
1  public int roundDown(int powerOfTwo, int num) {
2      return ~(powerOfTwo - 1) & num;
3  }
```