# Problem 2274: Maximum Consecutive Floors Without Special Floors

## Problem Information

**Difficulty:** Medium
**Acceptance Rate:** 52.35%
**Paid Only:** No
**Tags:** Array, Sorting

## Problem Description

Alice manages a company and has rented some floors of a building as office space. Alice has decided some of these floors should be **special floors** , used for relaxation only.

You are given two integers `bottom` and `top`, which denote that Alice has rented all the floors from `bottom` to `top` (**inclusive**). You are also given the integer array `special`, where `special[i]` denotes a special floor that Alice has designated for relaxation.

Return _the**maximum** number of consecutive floors without a special floor_.

**Example 1:**

**Input:** bottom = 2, top = 9, special = [4,6] **Output:** 3 **Explanation:** The following are the ranges (inclusive) of consecutive floors without a special floor: - (2, 3) with a total amount of 2 floors. - (5, 5) with a total amount of 1 floor. - (7, 9) with a total amount of 3 floors. Therefore, we return the maximum number which is 3 floors.

**Example 2:**

**Input:** bottom = 6, top = 8, special = [7,6,8] **Output:** 0 **Explanation:** Every floor rented is a special floor, so we return 0.

**Constraints:**

* `1 <= special.length <= 105` * `1 <= bottom <= special[i] <= top <= 109` * All the values of `special` are **unique**.

## Code Snippets

### C++:

```
class Solution {
public:
int maxConsecutive(int bottom, int top, vector<int>& special) {

}
};
```

### Java:

```
class Solution {
public int maxConsecutive(int bottom, int top, int[] special) {

}
}
```

### Python3:

```
class Solution:
def maxConsecutive(self, bottom: int, top: int, special: List[int]) -> int:
```