

숫자의 표현

# Index	12924
☀ Status	Done
☰ Tags	Hash Java Two Pointer

References

<https://school.programmers.co.kr/learn/courses/30/lessons/12924#>

References

1. Two Pointer, Java HashMap

1. Two Pointer, Java HashMap

1.1. Solution 1: 효율성 X

```
import java.util.HashMap;

class Solution {
    public int solution(int n) {
        HashMap<Integer, Integer> sumToIndex = new HashMap<>();
        HashMap<Integer, Integer> indexToSum = new HashMap<>();
        int sum = 0;
        for (int i = 1; i < n + 1; i++) {
            sum += i;
            sumToIndex.put(sum, i);
            indexToSum.put(i, sum);
        }

        int cnt = 1;
        for (int i = n - 1; i > 0; i--) {
            int end = indexToSum.get(i);
            if (end < n) {
                break;
            } else if (end == n) {
                cnt += 1;
                break;
            }

            if (sumToIndex.containsKey(end - n)) {
                cnt += 1;
            }
        }

        return cnt;
    }
}
```

```

        }
    }

    return cnt;
}
}

```

1.2. Solution 2: 효율성 0

```

import java.util.HashMap;

class Solution {
    public int solution(int n) {
        HashMap<Integer, Integer> sumToIndex = new HashMap<>();
        int[] indexToSum = new int[n + 1];
        int sum = 0;
        for (int i = 1; i < n + 1; i++) {
            sum += i;
            sumToIndex.put(sum, i);
            indexToSum[i] = sum;
        }

        int cnt = 1;
        for (int i = n - 1; i > 0; i--) {
            int end = indexToSum[i];
            if (end < n) {
                break;
            } else if (end == n) {
                cnt += 1;
                break;
            }

            if (sumToIndex.containsKey(end - n)) {
                cnt += 1;
            }
        }

        return cnt;
    }
}

```