

## Is it Fibonacci

Geek just learned about Fibonacci numbers.

The Fibonacci Sequence is the series of numbers: 0, 1, 1, 2, 3, 5, 8, 13, ...  
where the next number is found by adding up the two numbers before it.

He defines a new series called Geeky numbers. Here the next number is the sum of the **K** preceding numbers.

You are given an array of size K, **GeekNum[ ]**, where the  $i^{\text{th}}$  element of the array represents the  $i^{\text{th}}$  Geeky number. Return its  $N^{\text{th}}$  term.

**Note:** This problem can be solved in  $O(N^2)$  time complexity but the user has to solve this in  $O(N)$ . The Constraints are less because there can be integer overflow in the terms.

### **Example 1:**

**Input:**

`N = 6, K = 1`

`GeekNum[] = {4}`

**Output:**

4

**Explanation:**

Terms are 4, 4, 4, 4, 4, 4

### **Example 2:**

**Input:**

`N = 5, K = 3`

`GeekNum[] = {0, 1, 2}`

**Output:**

6

**Explanation:**

Terms are 0, 1, 2, 3, 6.  
So the 5th term is 6

**Your Task:**

You don't need to read input or print anything. Your task is to complete the function **solve( )** which takes integer N, K, and an array GeekNum[] as input parameters and returns the Nth term of the Geeky series.

**Expected Time Complexity: O(N)**

**Expected Space Complexity: O(N)**

**Constraints:**

$$1 \leq K \leq 30$$

$$1 \leq N \leq 70$$

$$K \leq N$$

$$0 \leq \text{GeekNum}[ ] \leq 100$$