Zoho Corporation - Programming Test

Section - B

1. Write a program to sort an array of "numbers in string representation" in their corresponding numerical order **without using atoi** or its implementations.

Example:

Input:
[
"1",
"14",
"100",
"3",
"38",
"425"
"6",
"82"
]

Output:
["1", "3", "6", "14", "38", "82", "100", "425"]

2. Write a program to print a given number in words.

Example:

Input: 255
Output: Two hundred and fifty five.

Input: 119
Output: One hundred and nineteen.

3. Write a program to implement Zeckondorf's theorem.

Definition: Zeckendorf's theorem states that every positive integer can be represented uniquely as the sum of *one or more* distinct Fibonacci numbers in such a way that the sum does not include any two consecutive Fibonacci numbers.

Example:

Input: 64
Output: 55+8+1

Input: 50
Output: 34+13+3