

# 1. Sum By Index

In the file `SumByIndex/implementation.cpp`, you need to write a function named `SumByIndex` that takes a 2D vector of ints and returns a 1D vector of ints. The vector returned should be the sum of all of the argument's subvectors at that position.

For instance, if the argument was `{{1, 2, 3}, {4, 9}}` the correct return value would be `{5, 11, 3}` because 5 is the sum of 1 and 4, and 11 is the sum of 2 and 9. Please note that not all of the subvectors will be the same length, so be careful not to index out of bounds.

I've already written the header file for you.