

Exercise 1

Exercise: Create a program that initializes two vectors $A[N]$ and $B[N]$ and create a third vector $C[N] = A[N] + B[N]$.

Requirements:

- 1.** Vector A must be initialized with increasing values from 0 to N -> $A[0] = 0$;
 $A[1] = 1$; ... ; $A[N-1] = N-1$;
- 2.** Vector B must be initialized with decreasing values from N to 1 -> $B[0] = N$;
 $B[1] = N-1$; ... ; $B[N-1] = 1$;
- 3.** Sum Kernel execution must wait the end of the two vector kernels init (Use event). Reading data from the sum kernel must wait for the completion of the Sum Kernel execution.