

Comparing the Cpp vectors and C arrays

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Dynamic or Static

Vectors works just as dynamic arrays, which is allocate, reallocate and deallocate itself automatically, as much as needed. Arrays can be dynamic or static.

Access

Access to elements is constant time for Arrays and Vectors. Differently to a Cpp-Vectors, by accessing a vector with [] square brackets the validity of the index will not be checked. So it will be probably compile error or unknown output. If the checking the validity of the index needed, then .at() vector function can be used.

Memory

if you want to use your memory more efficiently, then arrays will be a good option, cause vectors occupy more space than static arrays for the future steps.