TLArray Package (v0.3)
Test Cases

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declaration, destruction, get and output

C1: ()()(0)()(5)()
T1: ()()(0)()(5)()
C2: ()(ABC)()[ABC, ABC, ABC][, , , ,]
T2: ()(ABC)()[ABC, ABC, ABC][, , , ,]

push, pop, shift, unshift

C3: []()()()[1, 2, 3]()(1)
T3: []()()()[1, 2, 3]()(1)
C4: (3)[1, 2]()(2)[1]
T4: (3)[1, 2]()(2)[1]
C5: ()()()[c, b, a, 1](c)()(b)[a, 1]
T5: ()()()[c, b, a, 1](c)()(b)[a, 1]
C6: ()()()()[3, 0, a, 1, 1, 2](a)
T6: ()()()()[3, 0, a, 1, 1, 2](a)

basic operation

C7: ()[X, Y, X, X]()[X, Y, X, Y, X]()[X, Y, X, Y, X, , Z]()()[X, Y, Y, X, Z]
T7: ()[X, Y, X, X]()[X, Y, X, Y, X]()[X, Y, X, Y, X, , Z]()()[X, Y, Y, X, Z]
C8: ()()[P, Y, Y, Q, Z]()()[P, R, R, Q, W]()()[P, W]
T8: ()()[P, Y, Y, Q, Z]()()[P, R, R, Q, W]()()[P, W]
C9: ()()[G, F, E, W, P][L, M, N]()()[G, N, E, L, P][W, M, F]()[F, M, W]
T9: ()()[G, F, E, W, P][L, M, N]()()[G, N, E, L, P][W, M, F]()[F, M, W]
C10: ()()()()()()()[false, true, false, true, false, true, true]
T10: ()()()()()()()[false, true, false, true, false, true, true]

numeric

C11: (50213)(-179)(51485)
T11: (50213)(-179)(51485)
C12: [8, 3, 6, 2, 5, 1, 4, 9, 7]()[1, 2, 3, 4, 5, 6, 7, 8, 9]
T12: [8, 3, 6, 2, 5, 1, 4, 9, 7]()[1, 2, 3, 4, 5, 6, 7, 8, 9]

array and string, repetition

C13: ()[T, e, X, &, L, a, T, e, X](TeX&LaTeX)
T13: ()[T, e, X, &, L, a, T, e, X](TeX&LaTeX)
C14: (XeTaL&XeT)(TeX)(LaTeX)(TaL&X)
T14: (XeTaL&XeT)(TeX)(LaTeX)(TaL&X)