

	advantages	disadvantages
Pass by value	It copies the value to protect the original data	High cost
Pass by pointers	<ul style="list-style-type: none"> ● Can use dynamic memory AKA heap ● Use new and delete to store values in dynamic memory 	<ul style="list-style-type: none"> ● Need to be dereferenced. ● Limited arithmetic operations ● Generally, less safe ● More likely to be misused, and they can be very dangerous.
Pass by references	<ul style="list-style-type: none"> ● Avoid copying ● Avoid modification ● Modify a variable in a function ● Original data could be changed (only if we want to change the original data as well on purpose) ● No copy overhead 	<ul style="list-style-type: none"> ● Original data could be changed (not on purpose) ● Cannot be reassigned. ● Cannot be NULL. ● References can become invalid ● Must be initialized once defined. ● Can be misused, but less likely than pointers
Pass by const references	<ul style="list-style-type: none"> ● Original data cannot be changed. ● Avoid copying ● Avoid modification ● Modify a variable in a function 	<ul style="list-style-type: none"> ● Cannot be reassigned. ● Cannot be NULL. ● References can become invalid ● Must be initialized once defined.