

Julia Quiz: Multiple Dispatch by CCL

- Which of the following is NOT true about Multiple Dispatch in Julia?
 - ☐ Methods called for the same function differs with input arguments
 - ☐ The `@which` macro verifies which method was dispatched
 - ☐ The list of methods can be printed by calling `method(generic function)`
 - ☐ Generic functions may only be defined on built-in types
- After importing `+` from `Base`, how do we extend it to compute the union of 2 arrays: $A \cup B$?
 - ☐ `+(a::Array, b::Array) = string(a) * string(b)`
 - ☐ `+(a::Array, b::Array) = [string(a) * string(b)]`
 - ☐ `+(a::Array, b::Array) = union(a,b)`
 - ☐ `+(a::String, b::String) = union(a,b)`
- If no methods are defined on the inputted arguments for a given function, what error is raised?
 - ☐ `MethodError`
 - ☐ `FunctionError`
 - ☐ `NotImplementedError`
 - ☐ `SyntaxError`
- Which of the following defined methods will `bar(1.0, 0.0)` call?
 - ☐ `bar(a,b) = println("Hello world")`
 - ☐ `bar(a::Int, b::Int) = println(a+b)`
 - ☐ `bar(a::String, b::Array) = union(a,b)`
 - ☐ `bar(one::Bool, two::Bool) = one && two`
- Bonus: What are the expressive powers (expressiveness) of No, Single and Multiple dispatch sequentially?
Hint: Note the number of input arguments.
 - ☐ Constant — Linear — Exponential
 - ☐ Exponential — Linear — Constant
 - ☐ Linear — Constant — Exponential
 - ☐ Exponential — Constant — Linear

Answers: D, C, A, A, A