Quiz: Multiple Dispatch

1. Which of the following functions will throw an error when run on a square matrix?

```
A function foo(x)
2 .^rand(3)
end
```

- B function foo(x) return x^2 end
- c function foo(x)
 return 2*x
 end
- D function foo(x)
 return .+(x, 2)
 end

- 2. Which of the following is the correct way to specify input argument types?

 - f(x::Int) = x + 42
 - D f(x:Int) = x + 42

3. What will be the output of the following code?

```
f(x::String) = x*"added text"
f(x::Int) = x + 42
f(x::Array) = 2 .+ x
f(x) = x^2
f("Is that an error? Looks like ")
```

- A "Is that an error? Looks like added text"
- B "Is that an error? Looks like 42"
- C "Is that an error? Looks likeIs that an error? Looks like "
- D Error

4. What will be the output of the following code?

```
f(x::int) = x*42
f(x::string) = x*"extra text"
f(x) = x*"abcd"

f("Looks like ")
```

- A "Looks like 42"
- B "Looks like extra text"
- C "Looks like abcd"
- D Error

5. Which of the following fills in the blanks correctly?

@which [1, 2, 3] + [2, 3, 4]
OUTPUT: +(A::____, Bs::___...) in Base at arraymath.jl:44

- A Array, Array
- B Int, Int
- C Array, Int
- None of the above
- 6. What is this method to specify input parameters called?

 $f(x::Int) = x^2$

- A Array comprehension
- B Anonymous function
- C Multiple Dispatch
- Multiple Encapsulated Metadata Entriy Socket (MEMES)
- 7. What does the following code print?

foo(x::String) = x * "I don't trust like that"
methods(foo)

- A Information about the parameters the function accepts
- B Different methods to implement the same function
- C All the LLVM code the function executes
- D "I don't trust like that"