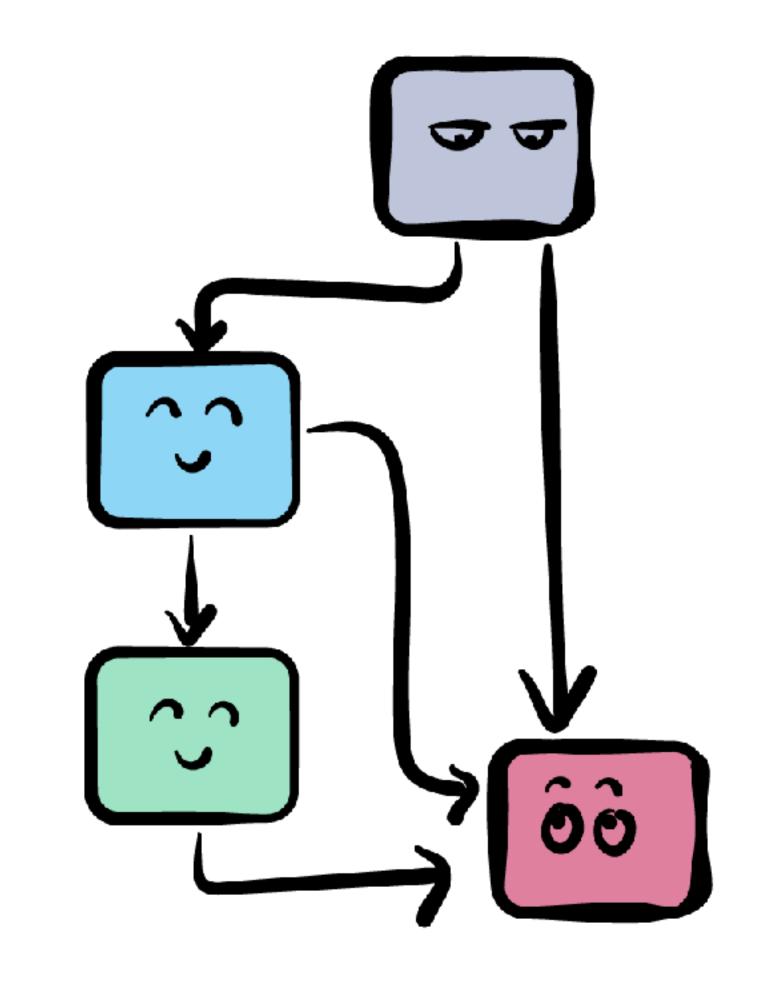
)) i05 (CONCURRENCY WITH GCD 3 OPERATIONS

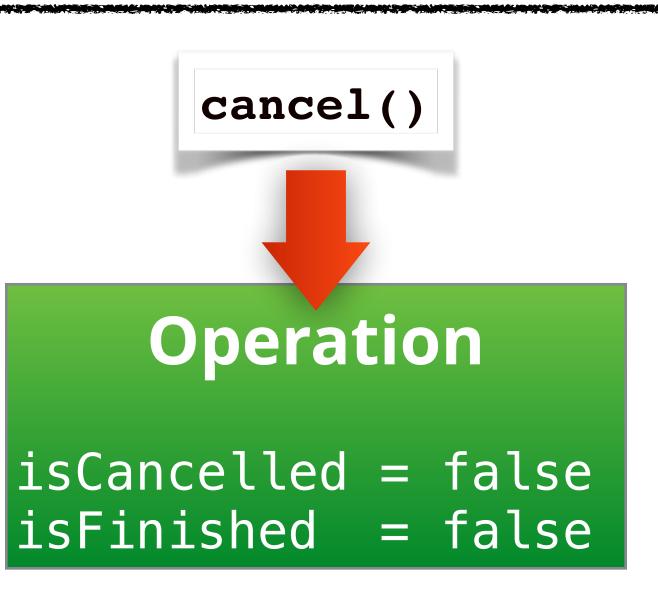


PART 9: CANCELLING TASKS

CANCELLING AN OPERATION

Operation

isCancelled = false
isFinished = false



Operation

```
isCancelled = true
isFinished = false
```



OPERATION

```
open class Operation : NSObject {
  open var isCancelled: Bool { get }
  open func cancel()
}
```

```
extension AsyncOperation {
    override func cancel() {
        state = .Finished
    }
    override var isExecuting: Bool {
        return state == .Executing
    }
    override var isFinished: Bool {
        return state == .Finished
    }
}
```

OPERATIONQUEUE

```
open class OperationQueue : NSObject {
  open func cancelAllOperations()
  ...
}
```



CANCELLING DISPATCHWORKITEM

```
public class DispatchWorkItem {
  public init(qos: DispatchQoS = default, flags: DispatchWorkItemFlags = default,
   block: @escaping @convention(block) () -> ())
 public func perform()
 public func wait()
 public func wait(timeout: DispatchTime) -> DispatchTimeoutResult
 public func wait(wallTimeout: DispatchWallTime) -> DispatchTimeoutResult
  public func notify(qos: DispatchQoS = default,
   flags: DispatchWorkItemFlags = default, queue: DispatchQueue,
   execute: @escaping @convention(block) () -> Swift.Void)
  public func notify(queue: DispatchQueue, execute: DispatchWorkItem)
 public func cancel()
 public var isCancelled: Bool { get }
```

CHALLENGE TIME!

