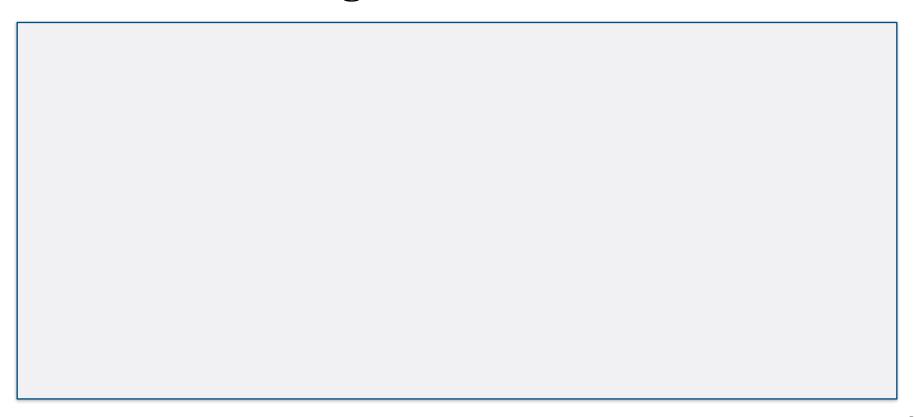
# **Tasking**

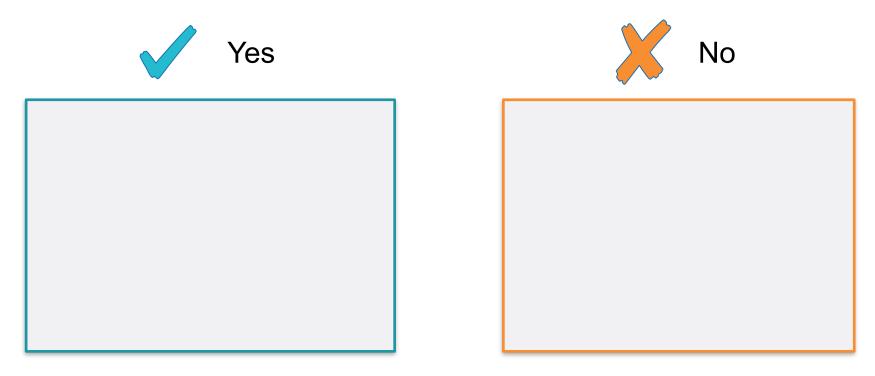


#### What's the tasking?

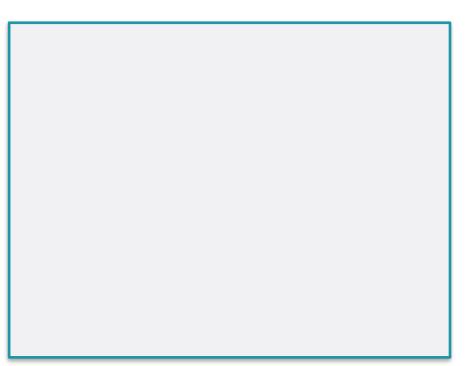


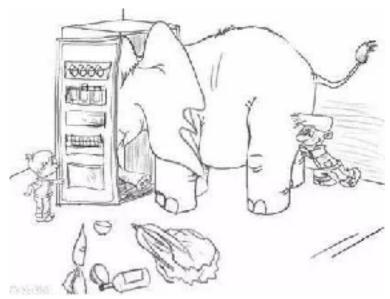
#### What's the tasking?

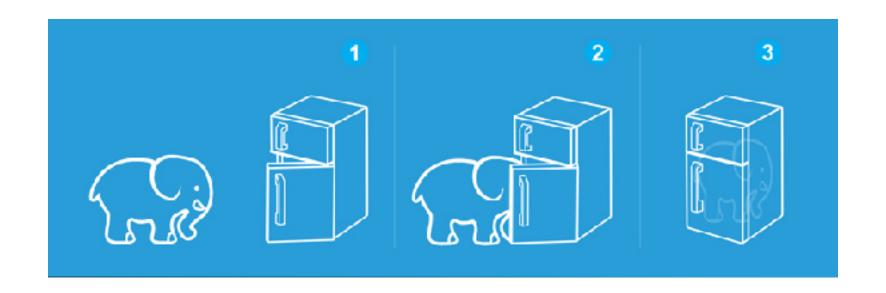


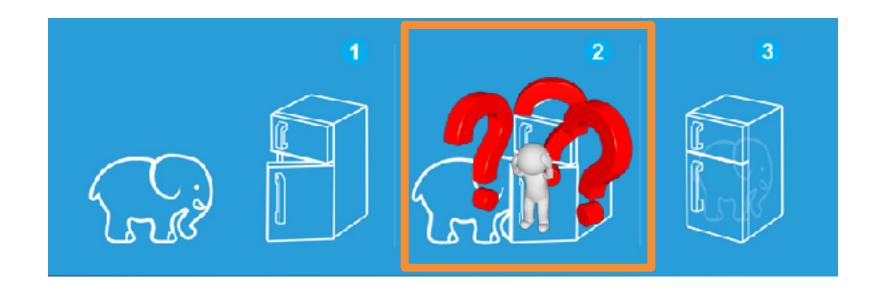


#### How many steps to put an elephant in the fridge?











Small light

- 1. Open the fridge door
- 2. Put the elephant in the fridge
- 3. Close the fridge door

- 1. Open the fridge door
- 2. Put the elephant in the fridge
- 3. Close the fridge door

- 1. Open the fridge door
- 2. Put the elephant in the fridge
  - 2.1 Shrink
  - 2.2 Put the small elephant into the fridge
- 3. Close the fridge door

- 1. Open the fridge door
- 2. Put the elephant in the fridge
  - 2.1 Shrink elephant
  - 2.2 Put the small elephant into the fridge
- 3. Close the fridge door

- 1. Open the fridge door
- 2. Put the elephant in the fridge
  - 2.1 Find Doraemon
  - 2.2 Shrink elephant
  - 2.2 Put the small elephant into the fridge
- 3. Close the fridge door

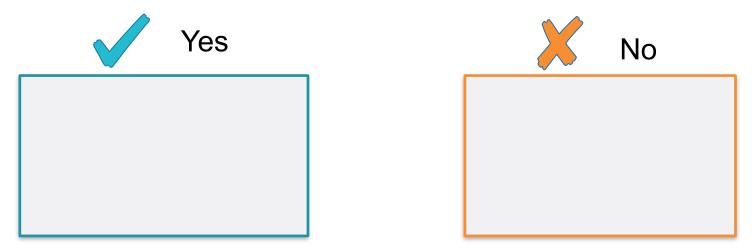
#### What have we done in the process?

- 1. Splitting complex problem to simple tasks (can be done in 15 mins)
- 2. Check and make sure tasks are independent
- 3. Check and make sure tasks are executable

#### Tasking in Software Development



- 1. Find all even numbers
- 2. Find the largest number
- 3. Check number if it is greater than 10



- 1. Find all even numbers
  - Input: numbers:[]
  - Output: evenNumbers: []
- 2. Find the largest number
  - Input: numbers:[]
  - Output: number: int
- 3. Check if it is greater than 10
  - Input: number: int
  - Output: isGreaterThan10: boolean

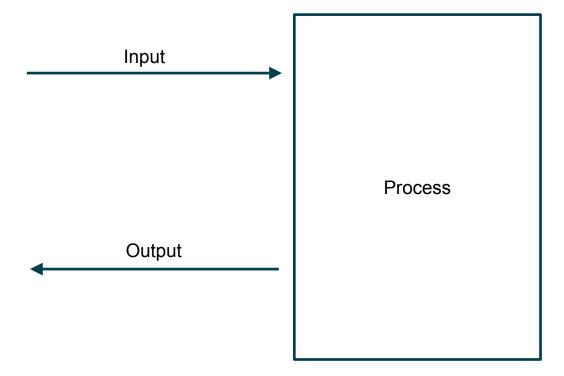
## What is tasking?

What have we done in the process?

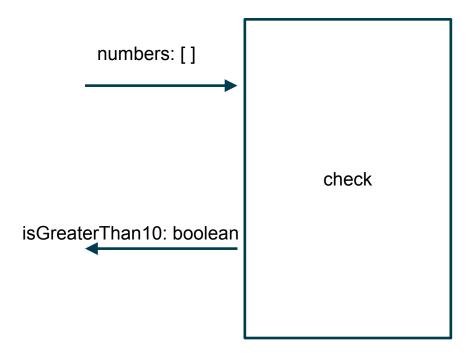
- 1. Splitting complex problem to simple tasks (can be done in 15 mins)
- 2. Check and make sure tasks are independent
- 3. Check and make sure tasks are executable and verifiable

- 1. Find all even numbers
  - Input: numbers:[]
  - Output: evenNumbers: []
- 2. Find the largest number
  - Input: numbers:[]
  - Output: number: int
- 3. Check if it is greater than 10
  - Input: number: int
  - Output: isGreaterThan10: boolean

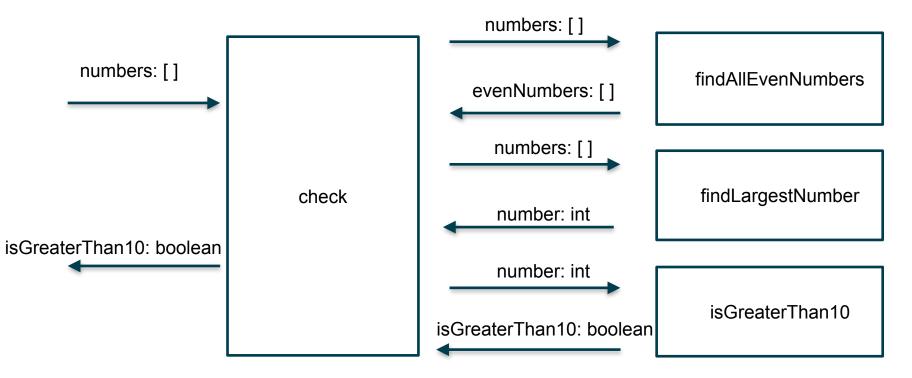
## **Context Map**



#### **Cute Number Context Map**



## **Cute Number Context Map**



#### Cute Number - What we did just now

#### Cute Number - What we did just now

- 1. Clarify
- 2. List Tasks
- 3. Define Input & Output
- 4. Draw Context Map

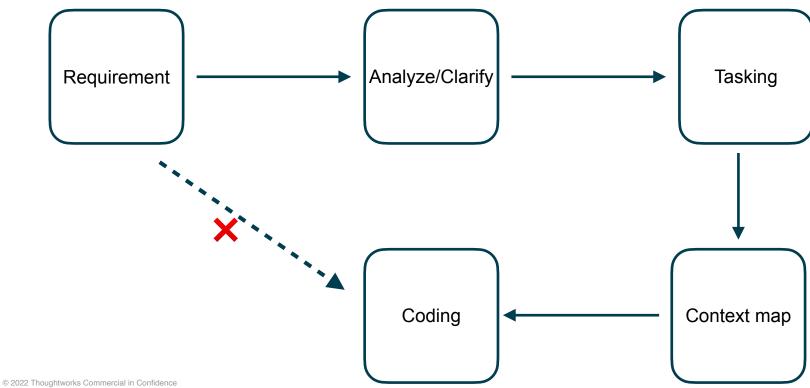
#### **Coding Demo: Cute Number**



## **Summary**



## **Summary**



#### **Tasking Summary**



Simple Task

Easy to read and understand



Independent

Division of labor & Independent testing



Verifiable

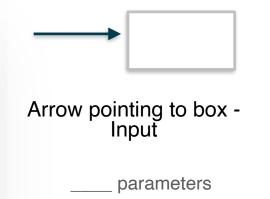
Input & Output

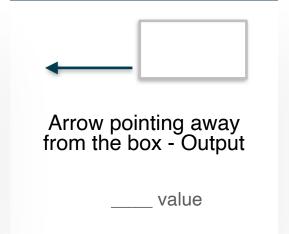
## **Context Map Summary**



Box with name

\_\_\_\_ name





## **Context Map Summary**



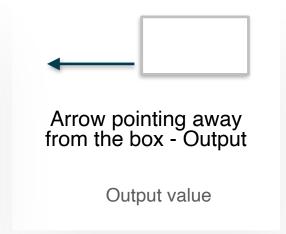
Box with name

Function name



Arrow pointing to box - Input

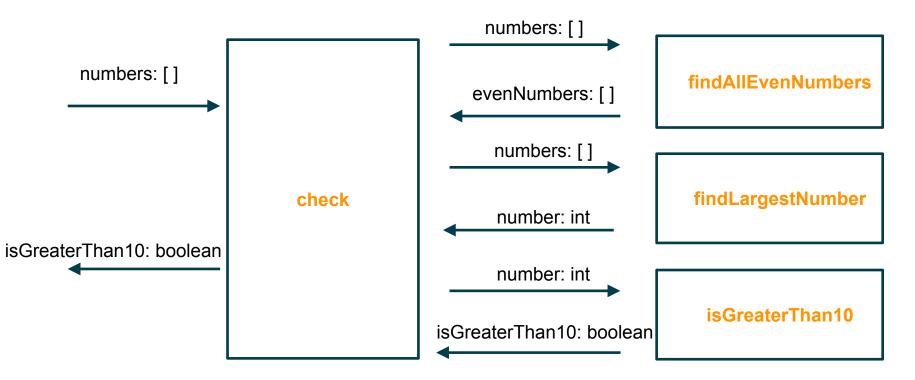
Input parameters



#### **Exercise: Naming**

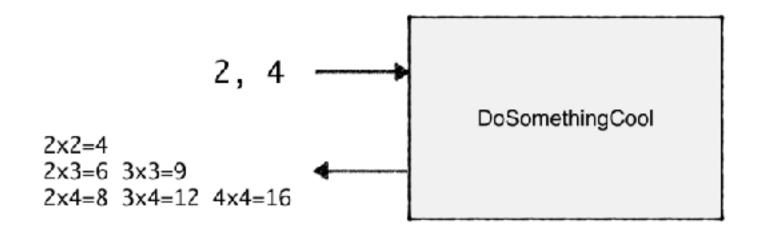


## Meaningful Name



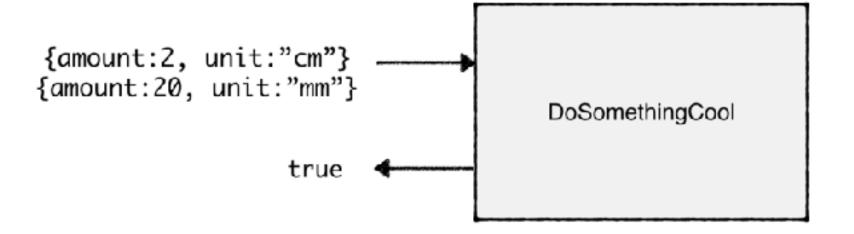
## Naming Exercise 1

Please review the diagram and rename the function



## **Naming Exercise 2**

Please review the diagram and rename the function

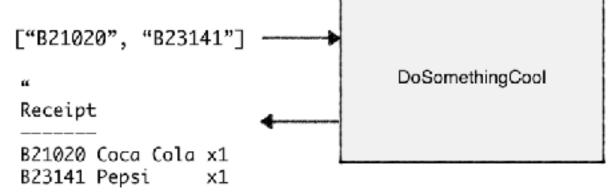


#### Naming Exercise 3

Please review the diagram and rename the function

A pos-machine will collect all the barcodes on the items and print all the

information on a receipt.



Total: \$8

77

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## **Naming Summary**

- Reveal intention (e.g. receipt vs printReceiptFromBarcodes)
- Avoid incomprehensible abbreviations (e.g. a vs anchor, n vs number, tmp vs temporary)
- Name the business term with business expression (e.g. Receipt vs ItemAndPricePair)
- Use consistent format (function name convention: verb + noun, e.g. generateReceipt)