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Make sure you 100% understand the problem. **Ask the right questions** to get a clear picture of the problem

EXAMPLE

- Project Manager. "We need a function that reverses whatever we pass into it"
- What does "whatever" even mean in this context?
 What should be reversed? **Answer**: Only strings,
 numbers, and arrays make sense to reverse...
 - What to do if something else is passed in?
 - What should be returned? Should it always be a string, or should the type be the same as passed in?
 - How to recognize whether the argument is a number, a string, or an array?
 - How to reverse a number, a string, and an array?

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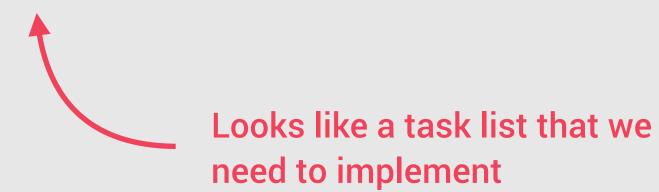


Divide and conquer: Break a big problem into smaller sub-problems.

EXAMPLE

Project Manager: "We need a function that reverses whatever we pass into it"

- 2 SUB-PROBLEMS:
 - Check if argument is a number, a string, or an array
 - Implement reversing a number
 - Implement reversing a string
 - Implement reversing an array
 - Return reversed value



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Divide and conquer: Break a big problem into smaller sub-problems.



Don't be afraid to do as much research as you have to

- Project Manager. "We need a function that reverses whatever we pass into it"
- How to check if a value is a number in JavaScript?
 - How to check if a value is a string in JavaScript?
 - How to check if a value is an array in JavaScript?
 - How to reverse a number in JavaScript?
 - How to reverse a string in JavaScript?
 - How to reverse an array in JavaScript?







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For bigger problems, write pseudo-code before writing the actual code

EXAMPLE

- Project Manager: "We need a function that reverses whatever we pass into it"
- function reverse(value)
 if value type !string && !number && !array
 return value

```
if value type == string
  reverse string
if value type == number
  reverse number
if value type == array
  reverse array
```

return reversed value