# 每日一题 - 2019-09-02 - 【编程题】实现高阶函数combinedFetcher

### 信息卡片

* 时间：2019-09-02
* tag：编程题

### 问题描述

A fetcher is

function fetcher(arg, cb){  
 let res = fetch(arg);  
 cb(res);  
}

Write a higher-order function combinedFetcher, using callback to get all the fetched data.

E.g.

const fetchFruitsAndDrinks = combinedFetcher("fruits", "drinks");  
fetchFruitsAndDrinks(console.log);

### 参考实现

这其实是一道互联网大厂的面试真题，笔者也碰到过。

function fetch(arg) {  
 return `response with: ${arg}`;  
}  
function fetcher(arg, cb){  
 let res = fetch(arg);  
 cb(res);  
}  
function combinedFetcher(...args) {  
 const len = args.length;  
 let cnt = 0;  
 const res = [];  
 function innerCB(r, cb) {  
 cnt++;  
 res.push(r)  
 if(cnt === len) cb(res);  
 }  
  
 return cb => args.forEach(arg => fetcher(arg, r => innerCB(r, cb)));  
}  
  
const fetchFruitsAndDrinks = combinedFetcher("fruits", "drinks");  
fetchFruitsAndDrinks(console.log)