

## Use a Callback for Iteration

Can we write a function to perform iteration?

Yes, by placing the code to execute for each “thing” in a callback!

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## Arguments to the Callback: `void*` and `void*`

What signature should we use for the callback?

First, we need

- a **pointer to the “thing.”**
- Let’s use a **`void*`**.

To allow specialization, we also need

- a **pointer to other arguments,**
- also a **`void*`**.

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## Return Value Type `void` Acceptable for Pure Iteration

What should the callback return?

If all we want to do

- is **iterate over all things,**
- return type **`void` is fine.**

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## Iteration Can Be Used for Many Purposes

What else might we want to do?

1. **Find a specific “thing”**  
(and possibly remove it from the list).
2. **Remove a set of “things”** from the list  
(remove and keep going).
3. **Free a set of “things”** from the list  
(remove, free, and keep going).

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