

# rec06 FAQ - Copy Control

These are just some questions that I often find students ask.

- Q: Do I need “getters” for fields in the **Directory** class to be used in the **Directory** copy constructor and assignment operator?  
A: No. A class’s methods can access the private members of *any* instance of that class.
- Q: To make “copies” of the **Entry** objects, should I be using the **Directory**’s add method in the **Directory** copy constructor?  
A: No! That would be **wrong**. You just want to *initialize* a copy of the **Entry**. How do you initialize? Use a constructor, here the **Entry**’s **copy constructor**.
  - Q: Does that mean I have to write a copy constructor for the **Entry** class?
  - A: Again, no. All classes are provided with a copy constructor by the system. You only write your own if the one the system provides doesn’t do what you need.
- Q: Why does the field **entries** in the **Directory** have the type **Entry\*\*** ??  
A: **entries** is a pointer to an array.
  - The type for a pointer to an array is “pointer to the type of an element in the array”.
  - What type of things does the **Directory**’s array hold? **Pointers** to **Entry** objects.
  - So the type of a pointer to the array is “pointer to ... pointer to an **Entry** object”, or in C++ syntax: **Entry\*\*** .