

34 Lecture - CS201

Important Subjective

1. **What is an array of objects and what is its purpose?**

Answer: An array of objects is an array that stores multiple objects of the same class. Its purpose is to provide a more organized and efficient way of working with objects, allowing for the manipulation of multiple objects at once.

2. **How do you declare and initialize an array of objects in C++?**

Answer: An array of objects is declared and initialized using the syntax `ClassName arrayName[size] = {object1, object2, object3, ...}`. The size of the array must be specified, and the objects are separated by commas.

3. **How do you access the elements of an array of objects in C++?**

Answer: The elements of an array of objects are accessed using array index notation, such as `arrayName[index]`. The index starts at 0 for the first element and increases by 1 for each subsequent element.

4. **How do you call a member function of an object in an array of objects?**

Answer: A member function of an object in an array of objects is called using array index notation, such as `arrayName[index].memberFunction()`.

5. **How do you access a data member of an object in an array of objects?**

Answer: A data member of an object in an array of objects is accessed using array index notation, such as `arrayName[index].dataMember`.

6. **Can you modify the values of an object in an array of objects?**

Answer: Yes, you can modify the values of an object in an array of objects by accessing its data members and using the assignment operator.

7. **How do you loop through an array of objects in C++?**

Answer: An array of objects can be looped through using a for loop, such as `for (int i = 0; i < size; i++) { ... }`.

8. **Can you sort an array of objects in C++?**

Answer: Yes, you can sort an array of objects in C++ using the `sort()` function provided by the `algorithm` header file.

9. **How do you find the size of an array of objects in C++?**

Answer: The size of an array of objects in C++ can be found using the `sizeof()` operator or by dividing the total size of the array by the size of each element.

10. **How do you delete an array of objects in C++?**

Answer: An array of objects is deleted using the `delete[]` operator, which deallocates the memory assigned to the array.