18 Lecture - CS304

Important Mcqs

1. **What is self-assignment?**
   a) Assigning a pointer to a different object
   b) Assigning an object to itself
   c) Assigning a value to a constant variable
   d) Assigning a value to a variable of a different data type
   Answer: b

   What can happen if self-assignment is not handled properly?
   a) Memory leaks
   b) Undefined behavior
   c) Corruption of the object's data
   d) All of the above
   Answer: d

   Which operator is commonly affected by the self-assignment problem?
   a) Comparison operator
   b) Unary operator
   c) Binary operator
   d) Assignment operator
   Answer: d

   What is a common technique for handling self-assignment in the assignment operator?
   a) Copying the object to a temporary object before performing the copy
   b) Checking if the object being assigned is the same as the original object before performing the copy
   c) Swapping the object with a copy of itself
   d) None of the above
   Answer: b

   What is the purpose of handling self-assignment in the assignment operator?
   a) To avoid memory leaks
   b) To prevent undefined behavior
   c) To ensure proper functioning of the program
   d) All of the above
   Answer: d

   Which of the following is a potential issue that can arise from self-assignment?
   a) Data corruption
   b) Memory leaks
   c) Undefined behavior
   d) All of the above
   Answer: d

   Why is it important to properly handle self-assignment in the assignment operator?
   a) To prevent crashes

b) To avoid undefined behavior
c) To optimize program performance
d) All of the above
Answer: b

How can self-assignment be checked in the assignment operator?
a) Using a try-catch block
b) Using a conditional statement
c) Using a loop
d) None of the above
Answer: b

Which of the following is an example of self-assignment?
a) a = b
b) a = a
c) a = &b
d) a = *b
Answer: b

What can happen if self-assignment is not handled properly in a program?
a) The program may crash
b) The program may behave unpredictably
c) The program may run slower than expected
d) All of the above
Answer: d