

## 23. Resource Management

 Resource+Management+Exercises.pdf

 Resource+Management+Solutions.pdf

Give some examples of classes in the C++ standard library which manage resources

✓ `std::string` and `std::vector` manage allocated memory

✓ `std::fstream` manages files

What is meant by RAII?

✓ The RAII is Resource Acquisition Is Initialization. this is a C++ pattern for handling the resource.

✓ The resource is stored as a private member of the class.

✓ The class constructor acquires ownership of the resource.

✓ The class's public member functions control access to the resource.

✓ The class's destructor releases the resource.

What are the advantages of the RAII?

✓ Obtaining access to the resource is straightforward and deterministic.

✓ Using the resource is straightforward.

✓ Releasing the resource is straightforward and deterministic.

✓ Only one object can own a given resource at a time.