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Creating a C++ Dynamic Link Library (DLL) and a Client Application### IntroductionThis article will guide you through the process of creating a C++ dynamic link library (DLL) using Visual Studio 2022 and a client application to call functions from the DLL. The DLL will be used to generate a Fibonacci sequence, given two initial values.### Creating the DLL.1. Open the Solution Explorer by pressing Ctrl + Alt + L.2. Create a New Project: Right-click on the solution folder and select "New" > "Project...". Choose "Visual C++" under "C++" and then "Dynamic Link Library (dll)".3. Add Header File: Right-click on the DLL project, then select "Add" > "New Item..." and choose "Header File (.h)" as the item type.4. Add Implementation File: Right-click on the DLL project, then select "Add" > "New Item..." and choose "Source File (.cpp)" as the item type.5. Compile the DLL: Right-click on the solution folder and select "Build" > "Rebuild Solution". The output will be saved in the "Debug" file folder.6. Client Application: Right-click on the client project, then select "Add" > "New Item..." and choose "Header File (.h)" as the item type.7. Modify Main Function: In the "Main" function, include the necessary declarations and calls.8. Build and Run: Right-click on the client project and select "Build" > "Rebuild Solution". Then, right-click on the client project and select "Debug" > "Start Without Debugging".### Code### MathLibrary.h

```
#pragma once
using namespace std;
int fibonacci_init(int a, int b);
int fibonacci_index(int a, int b);
int fibonacci_current(int a, int b);
int fibonacci_next(int a, int b);
```

MathLibrary.cpp

```
#include "MathLibrary.h"
using namespace std;

int fibonacci_init(const unsigned long long a, const unsigned long long b) {
    index = 0;
    current = a;
    previous = b;
    return true;
}

int fibonacci_index(const unsigned long long a, const unsigned long long b) {
    if (a < 0 || b < 0) return false;
    if (a > 0) {
        previous += current;
        current = previous;
        index++;
    }
    return index;
}

int fibonacci_current(const unsigned long long a, const unsigned long long b) {
    return current;
}

int fibonacci_next(const unsigned long long a, const unsigned long long b) {
    return previous;
}
```

ClientApp.cpp

```
#include "MathLibrary.h"
using namespace std;

int main() {
    fibonacci_init(1, 2);
    while (fibonacci_index(1, 2)) {
        cout << fibonacci_current(1, 2) << " ";
        fibonacci_next(1, 2);
    }
}
```

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