

Assignment 113: Write a program that closes any window just by placing the cursor on the 'Close' button in the title bar of it?

```
#include <windows.h>
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#include <stdio.h>

BOOL CALLBACK EnumWindowsProc(HWND hwnd, LPARAM lParam) {
    char class_name[256];
    char title[256];

    // Get the window title
    GetWindowText(hwnd, title, sizeof(title));

    // Get the window class name
    GetClassName(hwnd, class_name, sizeof(class_name));

    // Check if the window is visible and has a close button
    if (IsWindowVisible(hwnd) && strstr(class_name, "CabinetWClass") == NULL && strstr(title, "Program Manager") == NULL) {
        // Get the handle of the close button
        HWND closeButton = FindWindowEx(hwnd, NULL, "Button", NULL);
        if (closeButton != NULL) {
            // Get the position of the close button
            RECT rect;
            GetWindowRect(closeButton, &rect);

            // Check if the mouse cursor is within the bounds of the close button
            POINT cursorPos;
            GetCursorPos(&cursorPos);
            if (PtInRect(&rect, cursorPos)) {
                // Close the window
                SendMessage(hwnd, WM_CLOSE, 0, 0);
            }
        }
    }

    return TRUE;
}

int main() {
    // Enumerate all top-level windows
    EnumWindows(EnumWindowsProc, 0);

    return 0;
}
```

NOTE: This program enumerates through all top-level windows, excluding certain system windows like the desktop and taskbar. For each window found, it checks if it's visible and contains a close button. If the mouse cursor is placed within the boundaries of the close button, it sends a WM_CLOSE message to the window, causing it to close.

Compile and run this program on Windows, and whenever the cursor is placed over the close button of any visible window, that window will be closed. Ensure that you run the program with appropriate permissions, as it interacts with other windows using the Windows API.

