```cpp
1  // CSmartColourTypes.cpp : implementation file
2  //
3
4  #include "pch.h"
5  #include "DesignArk.h"
6  #include "afxdialogex.h"
7  #include "CSmartColourTypes.h"
8
9
10 // CSmartColourTypes dialog
11
12 IMPLEMENT_DYNAMIC(CSmartColourTypes, CMFCPropertyPage)
13
14 CSmartColourTypes::CSmartColourTypes(std::vector<CString>
     types_string, COLORREF colour, CWnd* pParent /*=nullptr*/)
15     : CMFCPropertyPage(IDD_SMARTCOLOUR_TYPES/*, pParent */)
16     , m_Listbox_Types_control()
17 {
18     this->m_listbox_types_strings = types_string;
19     this->m_Combo_Types_colour_var = colour;
20 }
21 CSmartColourTypes::~CSmartColourTypes()
22 {
23 }
24
25 void CSmartColourTypes::DoDataExchange(CDataExchange* pDX)
26 {
27     CMFCPropertyPage::DoDataExchange(pDX);
28
29     DDX_Control(pDX, IDC_MFCVSLISTBOX_TYPES,
       m_Listbox_Types_control);
30     DDX_Control(pDX, IDC_COMBO_COLOUR_TYPES,
       m_Combo_Types_colour_control);
31 }
32
33 BOOL CSmartColourTypes::OnInitDialog()
34 {
35     CDialog::OnInitDialog();
36
37     for (auto& it : this->m_listbox_types_strings) {
38         this->m_Listbox_Types_control.AddItem(it);
39     }
40     this->m_Combo_Types_colour_control.SetColor(this-
       >m_Combo_Types_colour_var);
41
42     return 0;
43 }
44
45 BOOL CSmartColourTypes::OnKillActive()
46 {
47     this->m_listbox_types_strings.resize(this-
       >m_Listbox_Types_control.GetCount());
48
49     for (int i = 0; i < this->m_Listbox_Types_control.GetCount(); i+
       +) {
50         this->m_listbox_types_strings[i] = this-
```

```
                     >m_Listbox_Types_control.GetItemText(i);
51          }
52
53      // Insertion Sort
54      for (int i = 1; i < this->m_listbox_types_strings.size(); i++) {
55
56          CString currentValue = this->m_listbox_types_strings[i];
57          int pos = i;
58
59          while (pos > 0 && this->m_listbox_types_strings[pos - 1] >  ⮐
               currentValue) {
60              this->m_listbox_types_strings[pos] = this-              ⮐
                 >m_listbox_types_strings[pos - 1];
61              pos--;
62          }
63          this->m_listbox_types_strings[pos] = currentValue;
64      }
65
66      this->m_Combo_Types_colour_var = this-                           ⮐
          >m_Combo_Types_colour_control.GetColor();
67
68      return CMFCPropertyPage::OnKillActive();
69 }
70
71
72 BEGIN_MESSAGE_MAP(CSmartColourTypes, CMFCPropertyPage)
73 END_MESSAGE_MAP()
74
```