示例代码:

```
// 4. 多重虚继承有虚函数.cpp: 定义控制台应用程序的入口点。
2
   //
  #include "stdafx.h"
4
  #include <iostream>
5
   using namespace std;
7
   // 床类
8
   class CBed {
9
10 public:
11
       CBed() {
           printf("CBed::CBed()\r\n");
12
           m nBed = 1;
13
14
       }
15
       ~CBed() {
16
           printf("CBed::~CBed()\r\n");
17
           m_nBed = 0;
18
19
       }
20
       virtual void sleep() {
21
           printf("CBed::sleep()\r\n");
22
       }
23
24
       void sleep2() {
25
           printf("CBed::sleep2()\r\n");
26
       }
27
28
29 private:
       int m_nBed;
30
31 };
32
33 // 沙发类
34 class CSofa {
35 public:
       CSofa() {
36
           printf("CSofa::CSofa()\r\n");
37
           m_nSofa = 2;
38
```

```
39
       }
40
       ~CSofa() {
41
           printf("CSofa::~CSofa()\r\n");
42
           m_nSofa = 0;
43
44
       }
45
       virtual void sit() {
46
           printf("CSofa::sit()\r\n");
47
       }
48
49
       void sit2() {
50
51
           printf("CSofa::sit2()\r\n");
52
       }
53
54 private:
       int m_nSofa;
55
56 };
57
58 // 沙发床多重继承,既继承了沙发的特点,又继承了床的特点。
59 class CSofaBed : virtual public CSofa, virtual public CBed {
60 public:
       CSofaBed() {
61
           printf("CSofaBed::CSofaBed()\r\n");
62
           m_nSofaBed = 3;
63
       }
64
65
       virtual void sleep() {
66
           printf("CSofaBed::sleep()\r\n");
67
68
       }
69
       virtual void sit() {
70
           printf("CSofaBed::sit()\r\n");
71
72
       }
73
74
       void test() {
75
           printf("CSofaBed::test()\r\n");
76
       }
77
78 private:
79
       int m_nSofaBed;
80 };
```

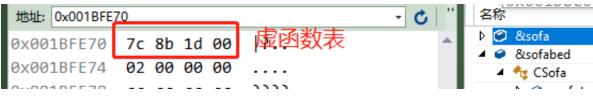
```
81
   int main()
82
   {
83
84
        CSofa sofa;
85
        CBed bed;
        CSofaBed sofabed;
86
        //对象大小
87
        cout << sizeof(CSofa) << endl; // 8</pre>
88
        cout << sizeof(CBed) << endl; // 8</pre>
89
        cout << sizeof(sofabed) << endl; // 32</pre>
90
91 }
```

对象大小

```
1 //对象大小
2 cout << sizeof(CSofa) << endl; // 8
3 cout << sizeof(CBed) << endl; // 8
4 cout << sizeof(sofabed) << endl; // 32
```

对象内存分析

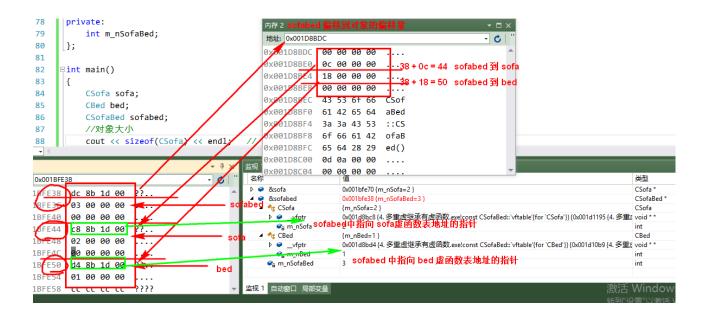
CSofa sofa;



CBed bed;



CSofaBed sofabed;



函数调用

参考虚函数调用部分。