 一个windows服务程序大体可以三步来写，其大体框架如下：

 1http://www.cppblog.com/Images/OutliningIndicators/None.gif// TestService.cpp : Defines the entry point for the console application.  
 2http://www.cppblog.com/Images/OutliningIndicators/None.gif//  
 3http://www.cppblog.com/Images/OutliningIndicators/None.gif  
 4http://www.cppblog.com/Images/OutliningIndicators/None.gif#include "stdafx.h"  
 5http://www.cppblog.com/Images/OutliningIndicators/None.gif#include <Windows.h>  
 6http://www.cppblog.com/Images/OutliningIndicators/None.gif  
 7http://www.cppblog.com/Images/OutliningIndicators/None.gifLPTSTR g\_ServiceName = \_T("TestService");  
 8http://www.cppblog.com/Images/OutliningIndicators/None.gif  
 9http://www.cppblog.com/Images/OutliningIndicators/None.gifvoid WINAPI ServiceCtrlHandler(DWORD code)  
10http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockStart.gif{  
11http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    //process control requests.  
12http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    //比如，当收到SERVICE\_CONTROL\_STOP请求时，设置server状态为stop  
13http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockEnd.gif}  
14http://www.cppblog.com/Images/OutliningIndicators/None.gif  
15http://www.cppblog.com/Images/OutliningIndicators/None.gifvoid MyServiceTestFuncion()  
16http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockStart.gif{  
17http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    //service功能函数。在这里写我们要service做什么事情  
18http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockEnd.gif}  
19http://www.cppblog.com/Images/OutliningIndicators/None.gif  
20http://www.cppblog.com/Images/OutliningIndicators/None.gif//服务入口函数,一些初始化动作在此处进行  
21http://www.cppblog.com/Images/OutliningIndicators/None.gifvoid WINAPI ServiceMain()  
22http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockStart.gif{  
23http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    SERVICE\_STATUS\_HANDLE hStatus;  
24http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    hStatus = RegisterServiceCtrlHandler(  
25http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif        g\_ServiceName,    //服务名称  
26http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif        ServiceCtrlHandler);//处理服务控制请求的函数  
27http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    if (!hStatus)  
28http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockStart.gif    {  
29http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif        //注册失败  
30http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif    }  
31http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    else  
32http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockStart.gif    {  
33http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif        MyServiceTestFuncion();  
34http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif    }  
35http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockEnd.gif}  
36http://www.cppblog.com/Images/OutliningIndicators/None.gif  
37http://www.cppblog.com/Images/OutliningIndicators/None.gif//函数入口函数  
38http://www.cppblog.com/Images/OutliningIndicators/None.gifint \_tmain(int argc, \_TCHAR\* argv[])  
39http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockStart.gif{  
40http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockStart.gif    SERVICE\_TABLE\_ENTRY ServiceTable[] = {  
41http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockStart.gif        {g\_ServiceName, (LPSERVICE\_MAIN\_FUNCTIONW)ServiceMain},  
42http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockStart.gif        {NULL, NULL}  
43http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif    };  
44http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif  
45http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    StartServiceCtrlDispatcher(ServiceTable);  
46http://www.cppblog.com/Images/OutliningIndicators/InBlock.gif    return 0;  
47http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockEnd.gif}  
48http://www.cppblog.com/Images/OutliningIndicators/None.gif  
49http://www.cppblog.com/Images/OutliningIndicators/None.gif

以下介绍这3个步骤：  
1、在main函数中调用StartServiceCtrlDispatcher函数，该函数会启动新线程来执行程序中所要执行的服务。

1http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockStart.gif    SERVICE\_TABLE\_ENTRY ServiceTable[] = {  
2http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockStart.gif        {g\_ServiceName, (LPSERVICE\_MAIN\_FUNCTIONW)ServiceMain},  
3http://www.cppblog.com/Images/OutliningIndicators/ExpandedSubBlockStart.gif        {NULL, NULL}  
4http://www.cppblog.com/Images/OutliningIndicators/ExpandedBlockEnd.gif    };  
5http://www.cppblog.com/Images/OutliningIndicators/None.gif  
6http://www.cppblog.com/Images/OutliningIndicators/None.gif    StartServiceCtrlDispatcher(ServiceTable);

其中，SERVICE\_TABLE\_ENTRY是一个结构，其中包括两个域：

http://www.cppblog.com/Images/OutliningIndicators/None.gif LPTSTR lpServiceName;  
http://www.cppblog.com/Images/OutliningIndicators/None.gif  LPSERVICE\_MAIN\_FUNCTION lpServiceProc;

lpServiceName指定在service进程中运行的服务的名字，它可以是空字符串（"”），但不能是NULL。

我们在程序的开始处指定如下：LPTSTR g\_ServiceName = \_T("TestService");

lpServiceProc指向服务入口函数的指针，即新启动的服务线程的指针。

一个服务程序可以启动几个线程，取决于ServiceTable中元素的个数。注意，ServiceTable的最后一个元素必须是{NULL, NULL}，以表示结束。

StartServiceCtrlDispatcher函数（其后所用的windowsAPI也是）的头文件是Windows.h，因此要包含该头文件

2、定义服务的入口函数ServiceMain。

在ServiceMain函数中调用RegisterServiceCtrlHandler函数来注册一个函数处理服务控制请求。函数调用方式如下：

http://www.cppblog.com/Images/OutliningIndicators/None.gifRegisterServiceCtrlHandler(   
 g\_ServiceName,     //服务名称   
 ServiceCtrlHandler);//处理服务控制请求的函数

RegisterServiceCtrlHandler 函数返回一个SERVICE\_STATUS\_HANDLE类型的handle来表明service的状态，如果是0，则表示注册失败。

然后调用我们的服务最主要的函数实现我们所要实现的功能：

MyServiceTestFuncion();//实现该服务要实现的功能

3、实现ServiceCtrlHandler函数

ServiceCtrlHandler函数的定义如下：

**VOID WINAPI** ServiceCtrlHandler**(**

**DWORD** *fdwControl*

**);**

其中，*fdwControl*是Control Code，监控服务的状态，可以在其中针对服务的各种状态进行动作，比如，当*fdwControl*是SERVICE\_CONTROL\_STOP时，停止该服务。

一个service程序实现的大致步骤如上。