



# **Code::Blocks**使用介绍

# 一、下载安装程序

<http://www.codeblocks.org/>



## Code::Blocks

*Code::Blocks - The IDE with all the features you need, having a consistent look, feel and operation across platforms.*

Home

Features

Downloads

Forums

Wiki

### Main

- Home
- Features
- Screenshots
- Downloads
- Plugins
- User manual
- Licensing
- Donations

### Quick links

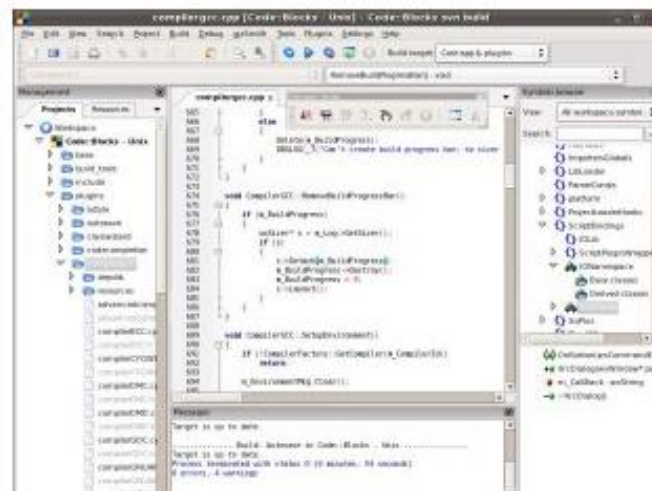
- FAQ
- Forums
- Wiki

## The open source, cross platform, free C++ IDE.

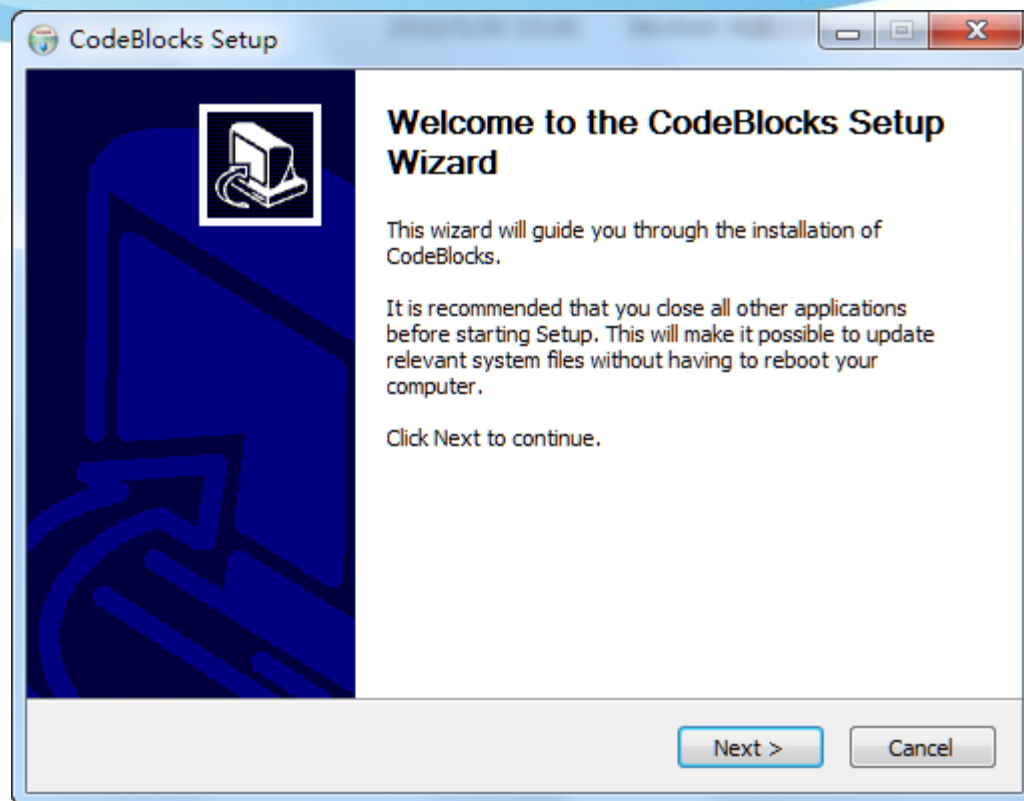
Code::Blocks is a *free C++ IDE* built to meet the most demanding needs of its users. It is designed to be very extensible and fully configurable.

Finally, an IDE with all the features you need, having a consistent look, feel and operation across platforms.

Built around a plugin framework, Code::Blocks can be *extended with plugins*. Any kind of functionality can be added by installing/coding a plugin. For instance, compiling and debugging



## 二、安装程序



常用版本为：`codeblocks-16.01mingw-setup`。

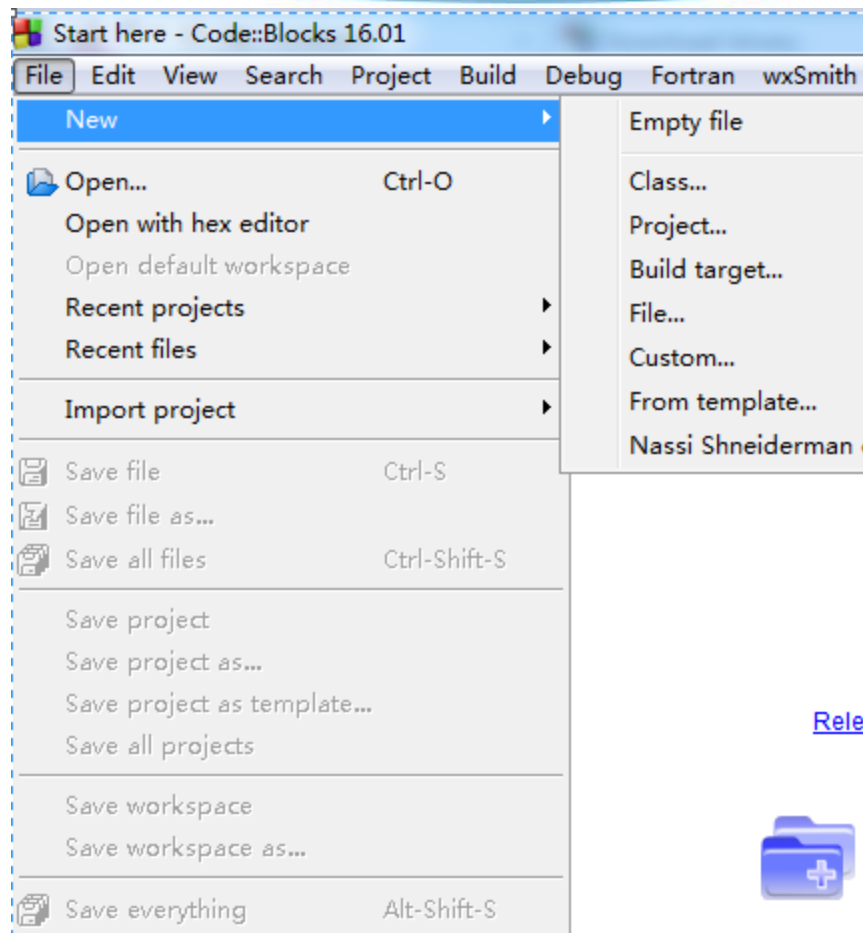
安装时请按安装程序窗口的提示一步步点击，直到安装完成。

# 启动后的窗口



### 三、建立工程

进入File菜单按照图示  
点击Project



也可以从这儿进入！



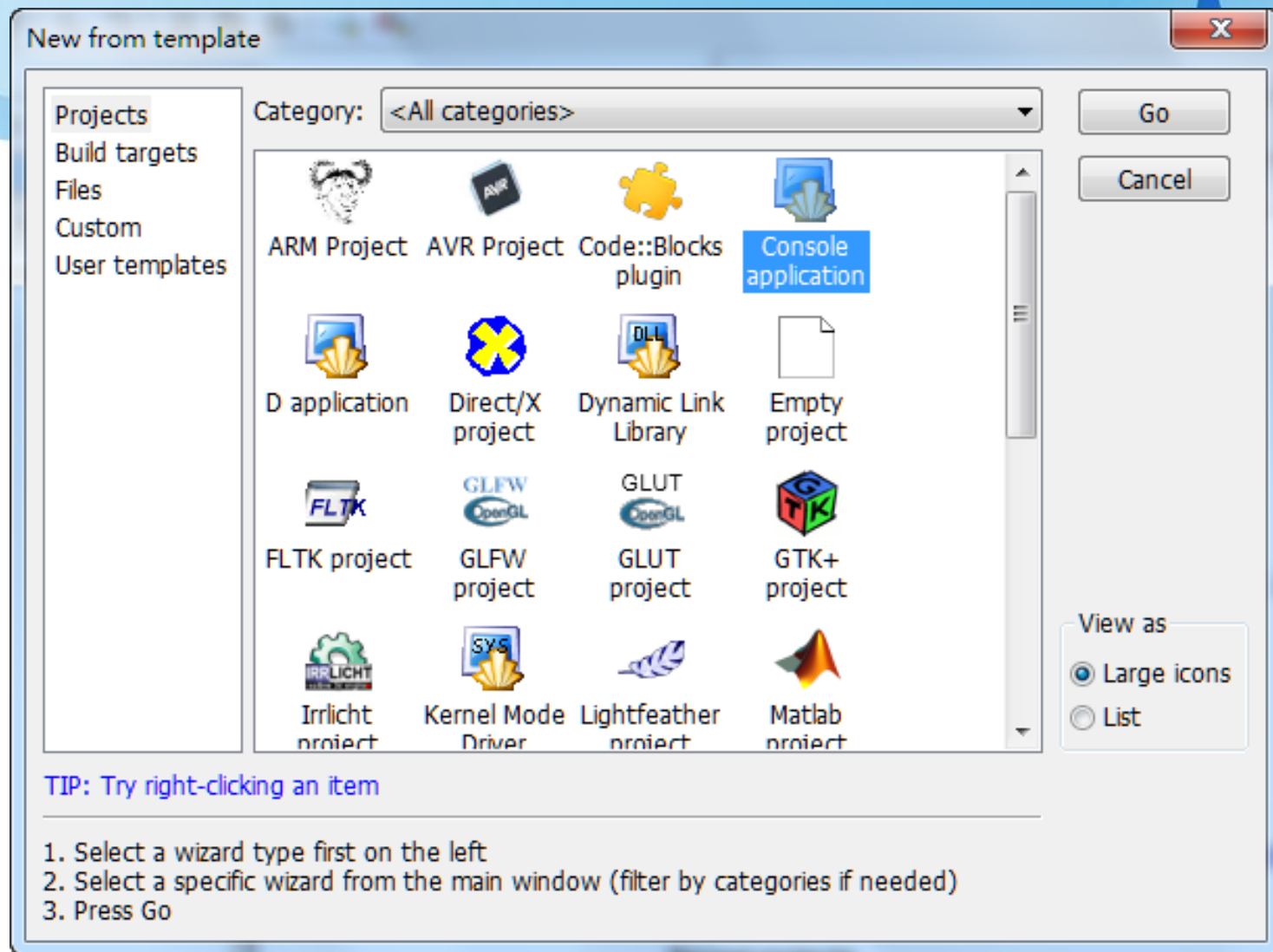
[Create a new project](#)



[Open an existing project](#)



[Tip of the Day](#)

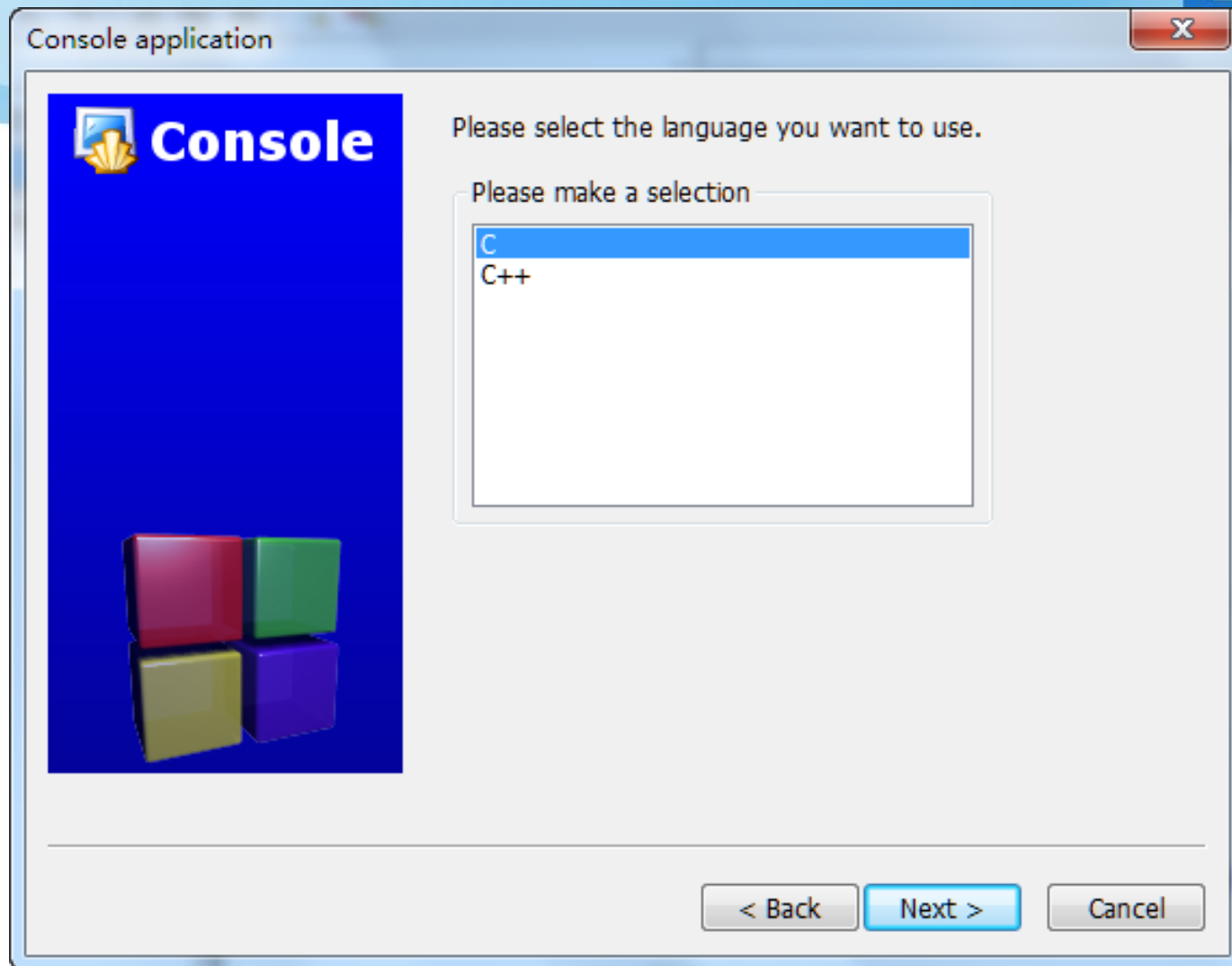


**选择Console application(控制台应用程序)。**





**为避免下次出现此窗口，选上“Skip this page next time”。**

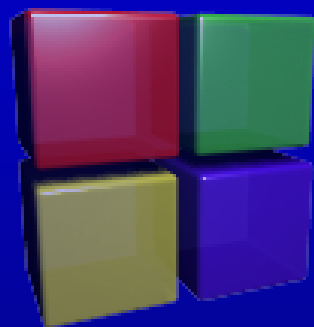


如果是学习C语言，则选择“C”。





# Console



Please select the folder where you want the new project to be created as well as its title.

Project title:

test

Folder to create project in:

E:\CSTUDY



Project filename:

test.cbp

Resulting filename:

E:\CSTUDY\test\test.cbp

项目名称与项目路径  
(位置)

当项目位置含中文或空格时，调试有可能不能进行!!!

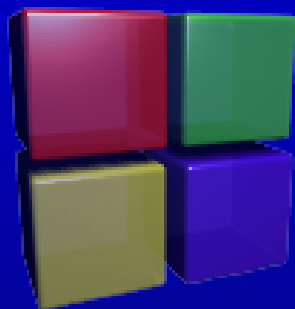
< Back

Next >

Cancel



# Console



Please select the compiler to use and which configurations you want enabled in your project.

Compiler:

GNU GCC Compiler

☒ Create "Debug" configuration: Debug

"Debug" options

Output dir.: bin\Debug\

Objects output dir.: obj\Debug\

☒ Create "Release" configuration: Release

"Release" options

Output dir.: bin\Release\

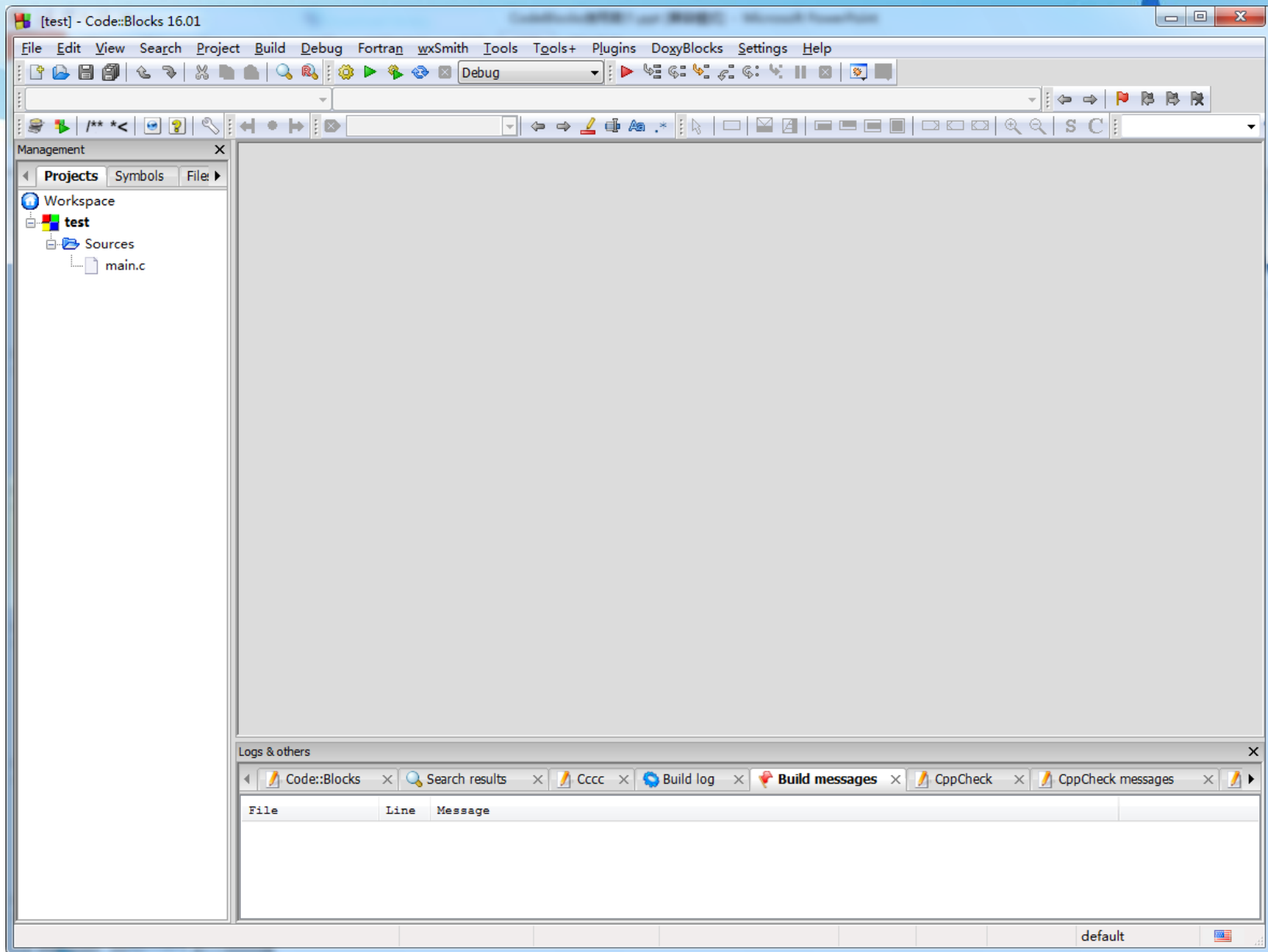
Objects output dir.: obj\Release\

< Back

Finish

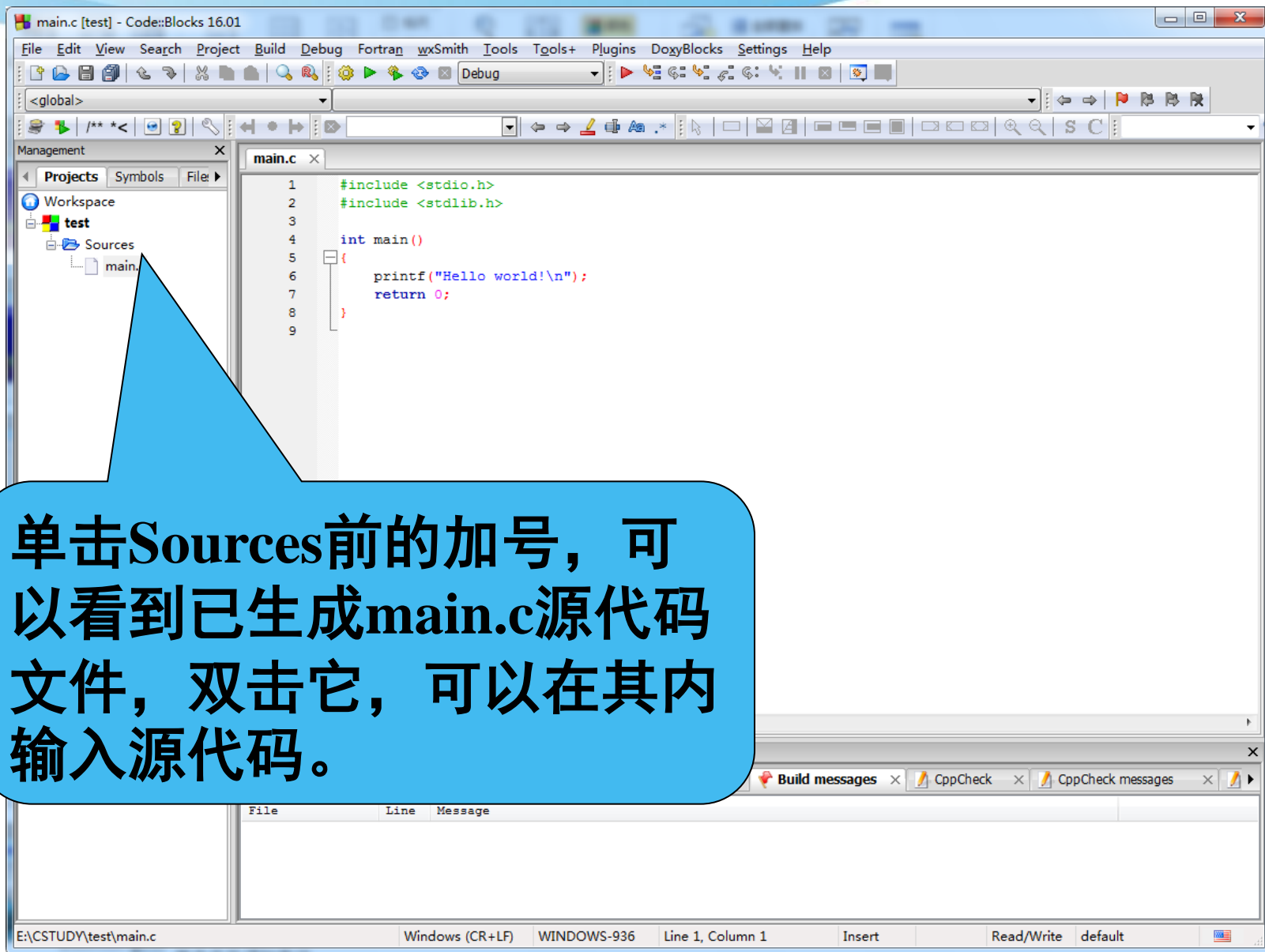
Cancel

编译器选择，用默认即可。



工程建立好后的界面。

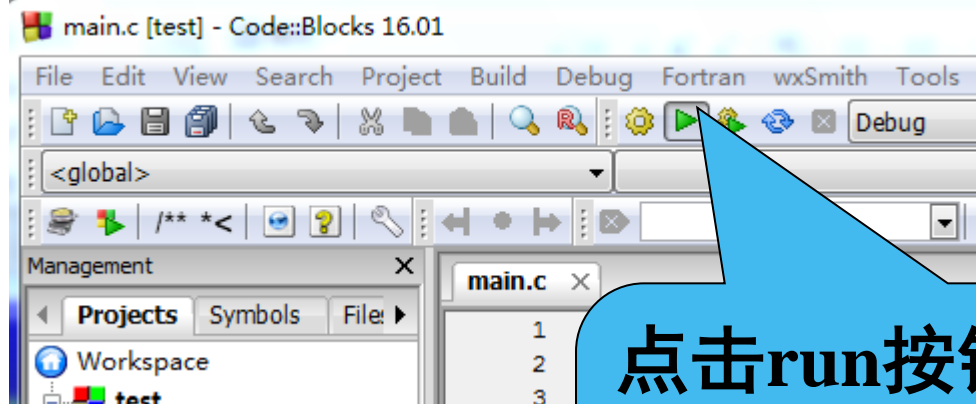
## 四、输入源程序(代码)



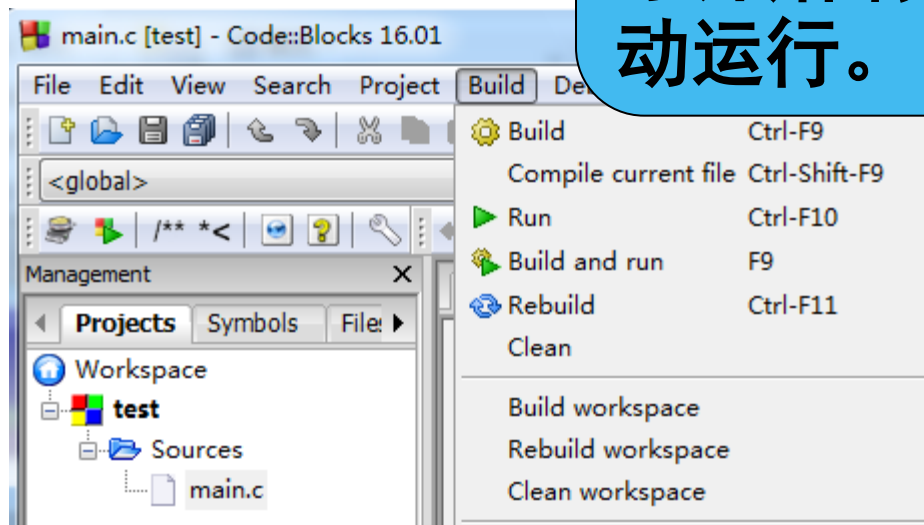
```
main.c x
1  #include <stdio.h>
2
3  int main()
4  {
5      int a,b,sum;
6      printf("请输入两个正整数: ");
7      scanf("%d %d",&a,&b);
8      sum=a+b;
9      printf("%d+%d=%d\n",a,b,sum);
10     return 0;
11 }
12
```

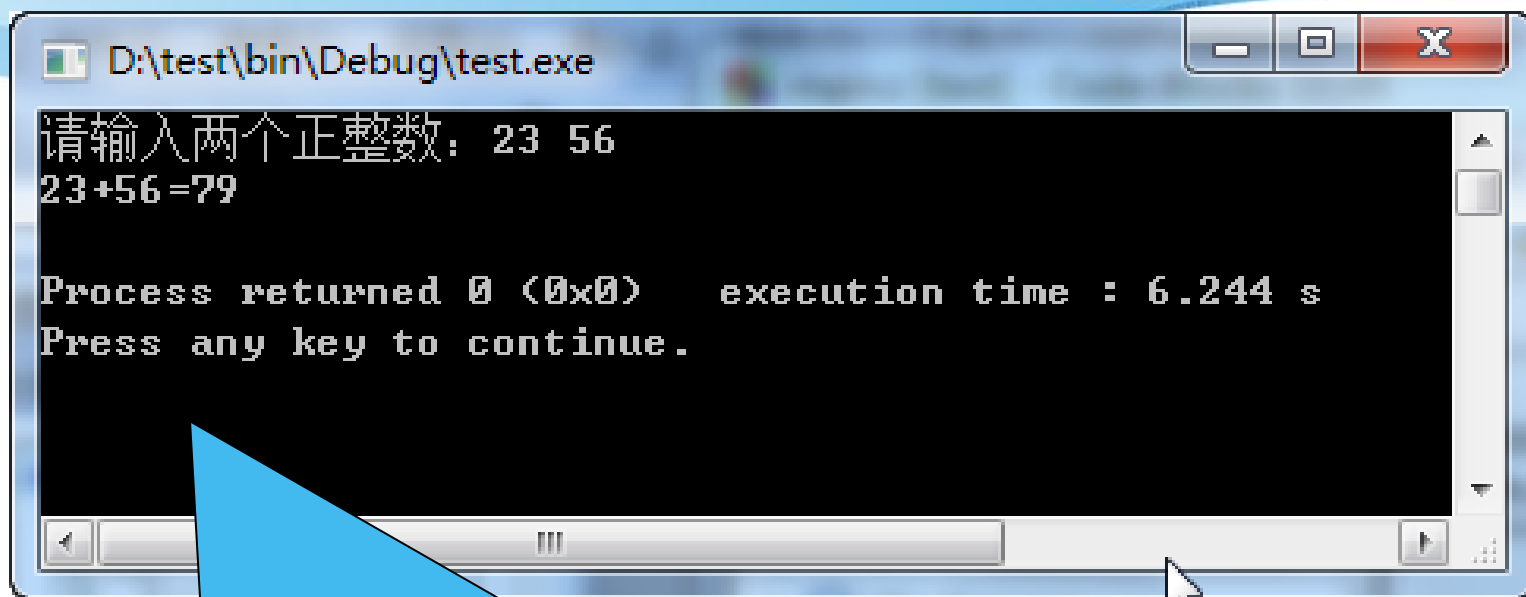
输入自己的程序。

## 五、运行程序



点击run按钮或进入下图所示的Build菜单，程序开始编译，然后会自动运行。





A screenshot of a Windows command prompt window. The title bar shows the file path "D:\test\bin\Debug\test.exe". The window has standard Windows window controls (minimize, maximize, close) on the top right. The command prompt displays the following text: "请输入两个正整数: 23 56", "23+56=79", "Process returned 0 (0x0) execution time : 6.244 s", and "Press any key to continue.". A blue callout bubble points to the bottom two lines of the output.

```
D:\test\bin\Debug\test.exe
请输入两个正整数: 23 56
23+56=79

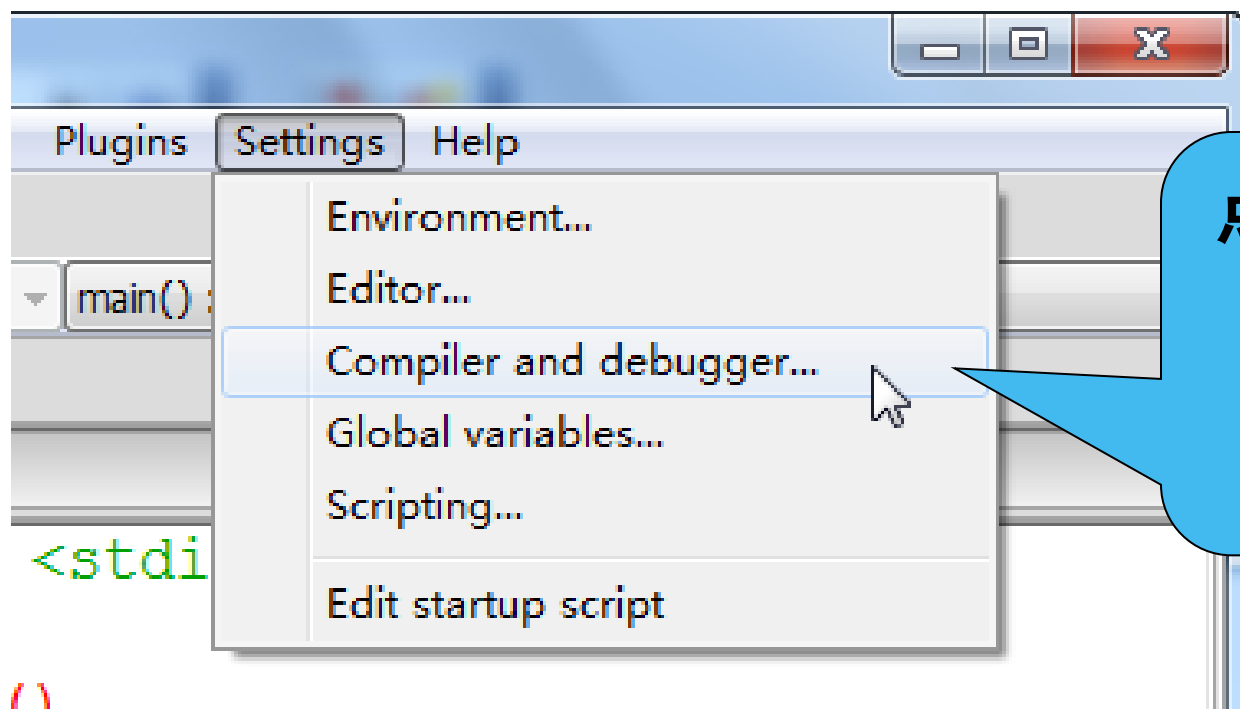
Process returned 0 (0x0) execution time : 6.244 s
Press any key to continue.
```

这是刚才程序代码的运行结果，最后两行不是该程序的运行结果，是CodeBlocks添加的结果，可以看到该程序的返回值和执行时长。并说明按任意键就能回到编辑程序界面。

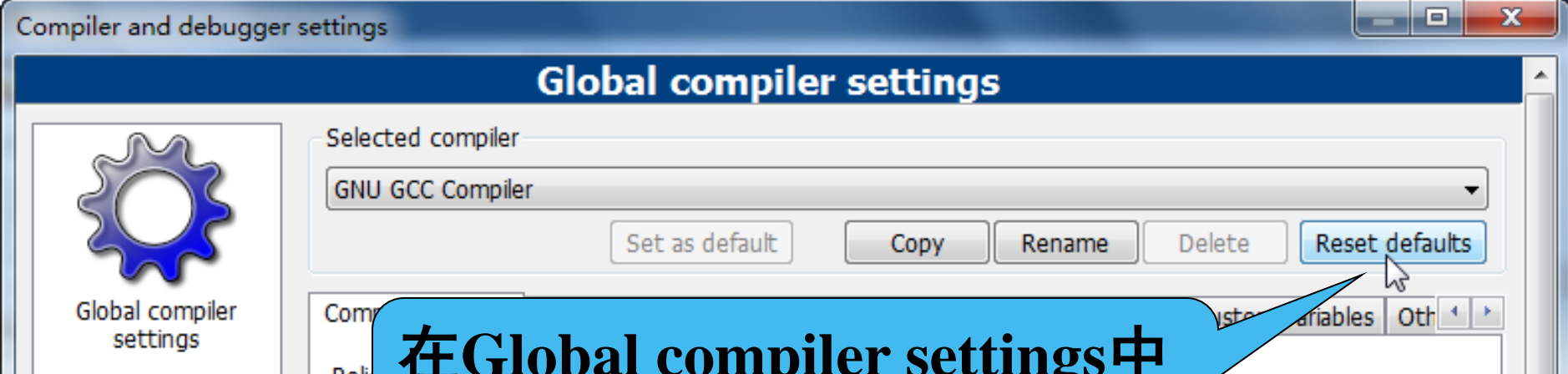


## 六、关于设置

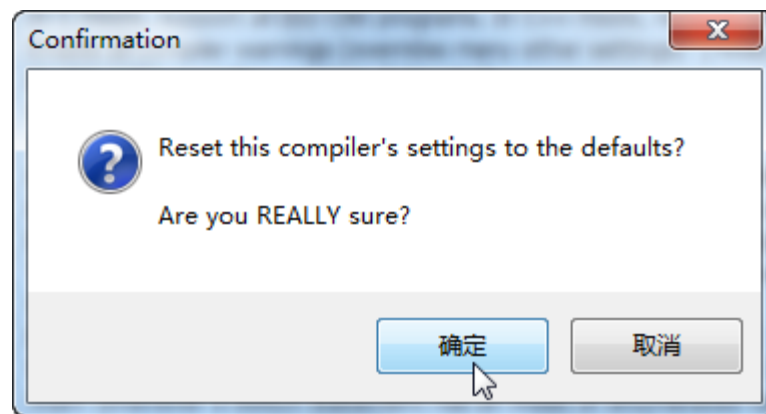
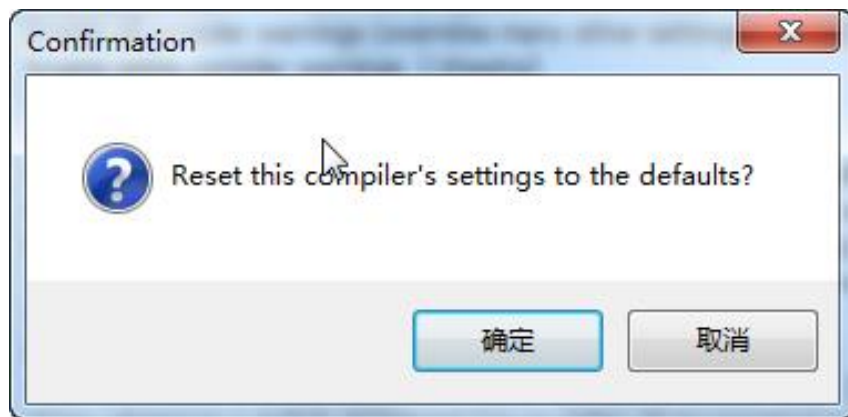
问题1：有时安装完成后，建立工程并写了程序开始编译运行，但CodeBlocks没有反应。通常是编译器路径不对的问题。大家可以这样修改。



点击**Compiler  
and  
debugger...**



在Global compiler settings中  
点击Reset default



均点击确定。

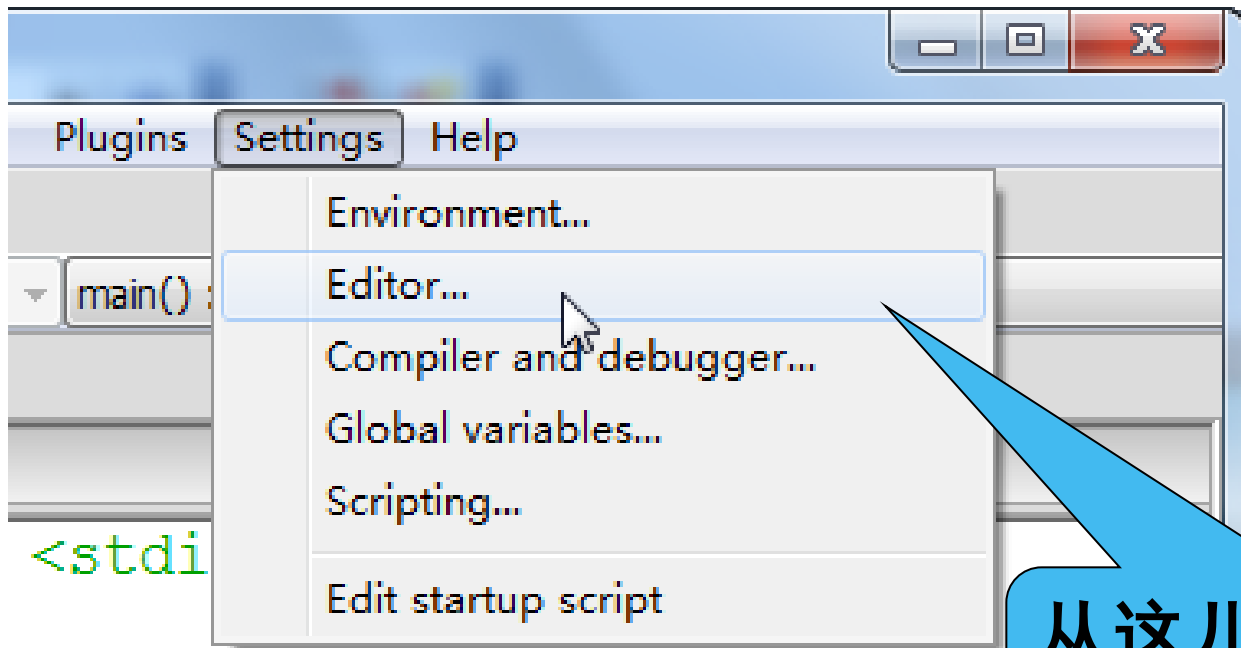


Auto-detected installation path of "GNU GCC Compiler"  
in "C:\Program Files\CodeBlocks\MinGW"

确定

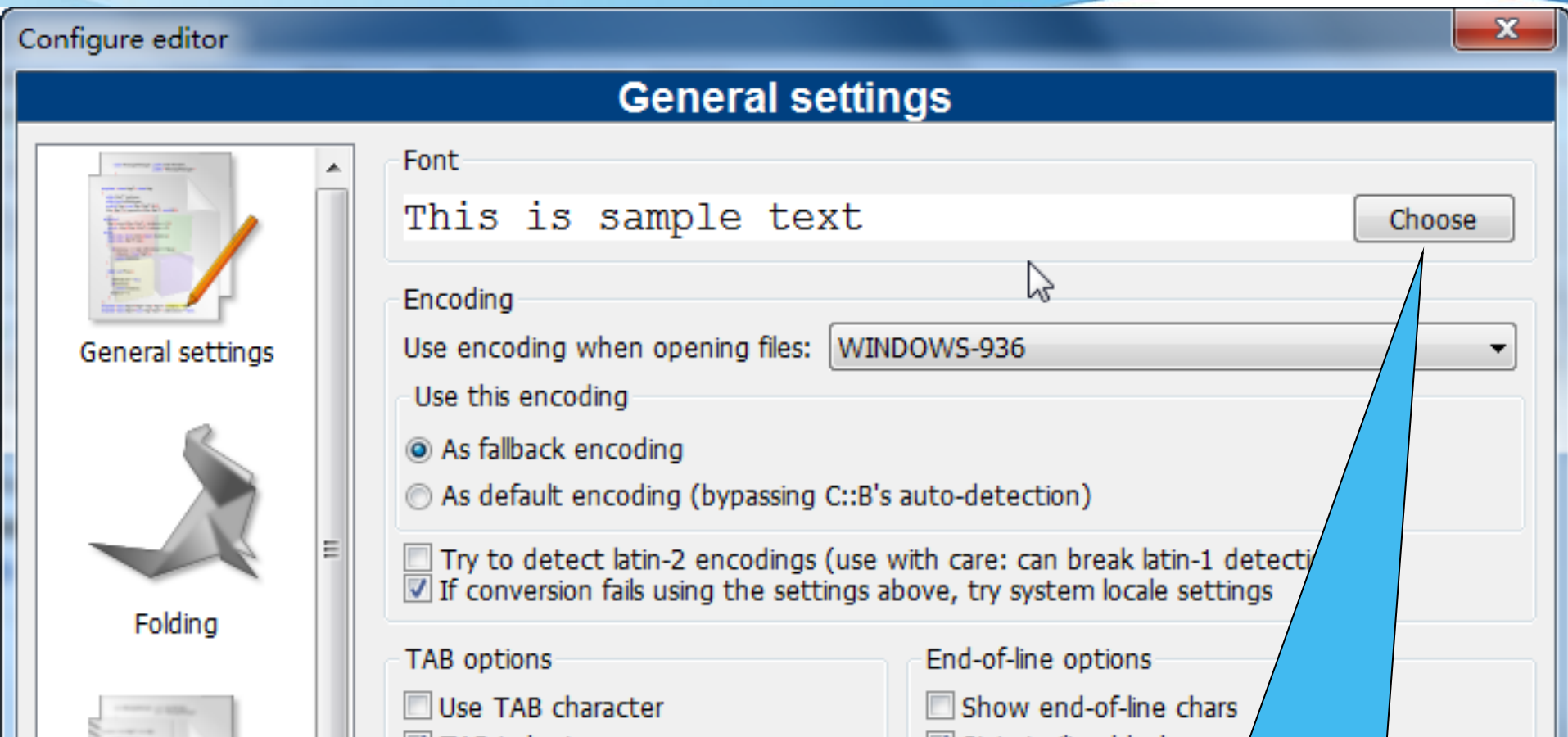
这时它会自动探测默认编译器的位置，从而就可以使用该编译器。

## 问题2： 如何设置编辑器字体及大小？



从这儿进入

()



点击Choose进入即可进行设置。

## 七、程序的调试

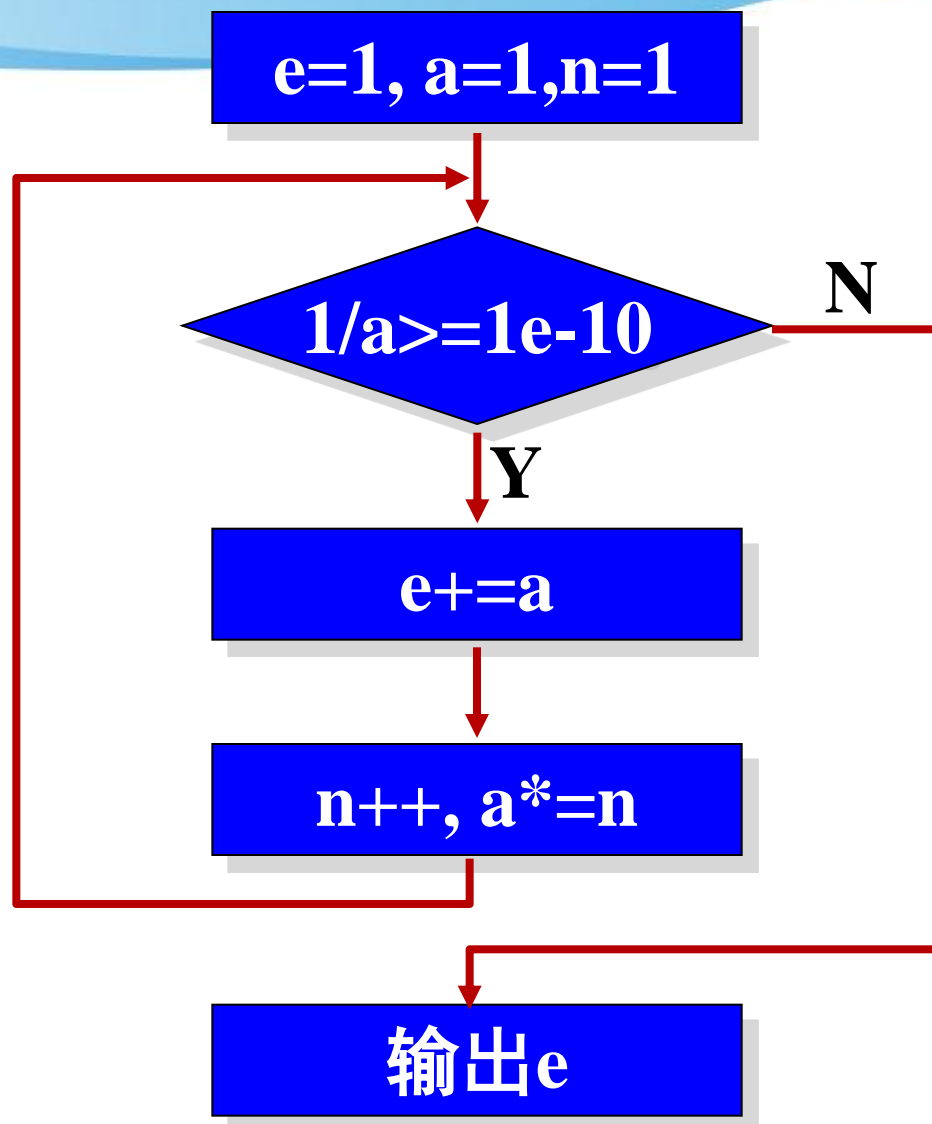
以下例说明在Code::Blocks中关于程序调试的简单方法。

**例** 由级数知识， $e \approx 1 + \frac{1}{1!} + \frac{1}{2!} + \frac{1}{3!} + \frac{1}{4!} + \cdots + \frac{1}{n!}$ ，

由此编写程序求 $e$ ，直到右式中最后一项小于 $10^{-10}$ 。

**分析：**由上面右式，看出是多项连加，并且项的生成有规律，所以考虑用循环实现连加。

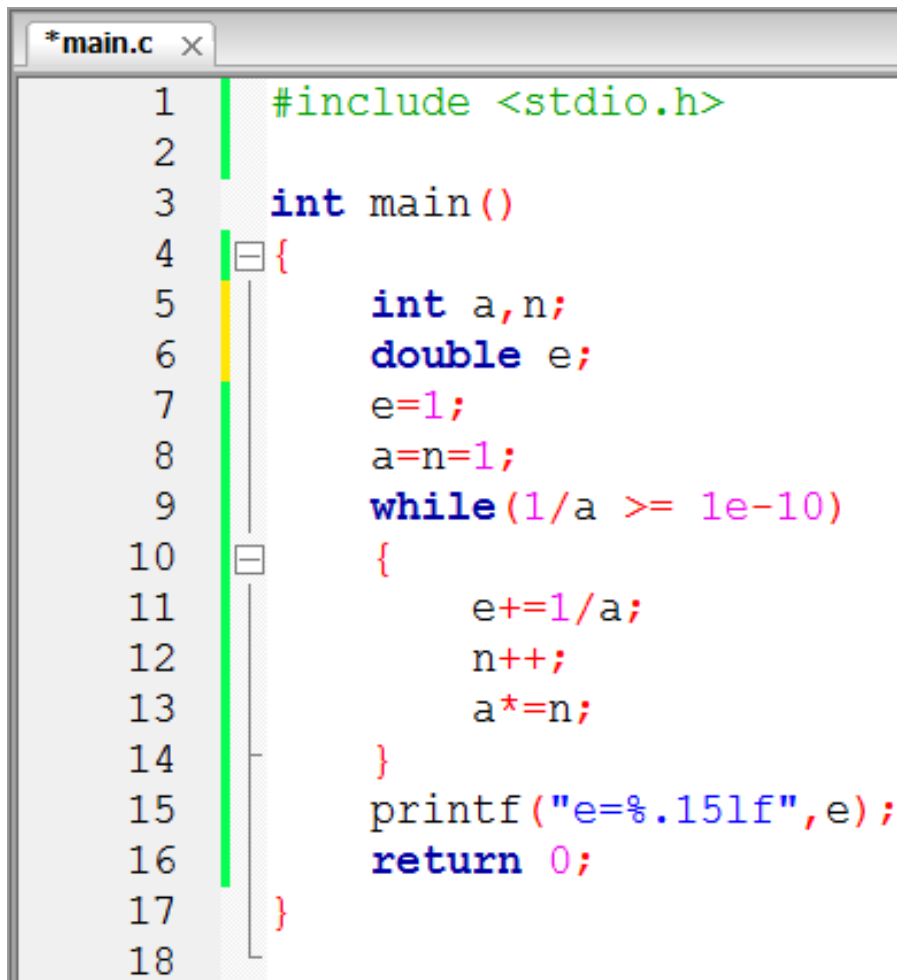
如果把 $1/1!$ 看作第1项，用变量 $a$ 表示当前要加的数的分母，当 $a$ 是第 $k$ 项分母时，则第 $k+1$ 项分母可表达为： $a*=k+1$ 。由此得到下面流程图。





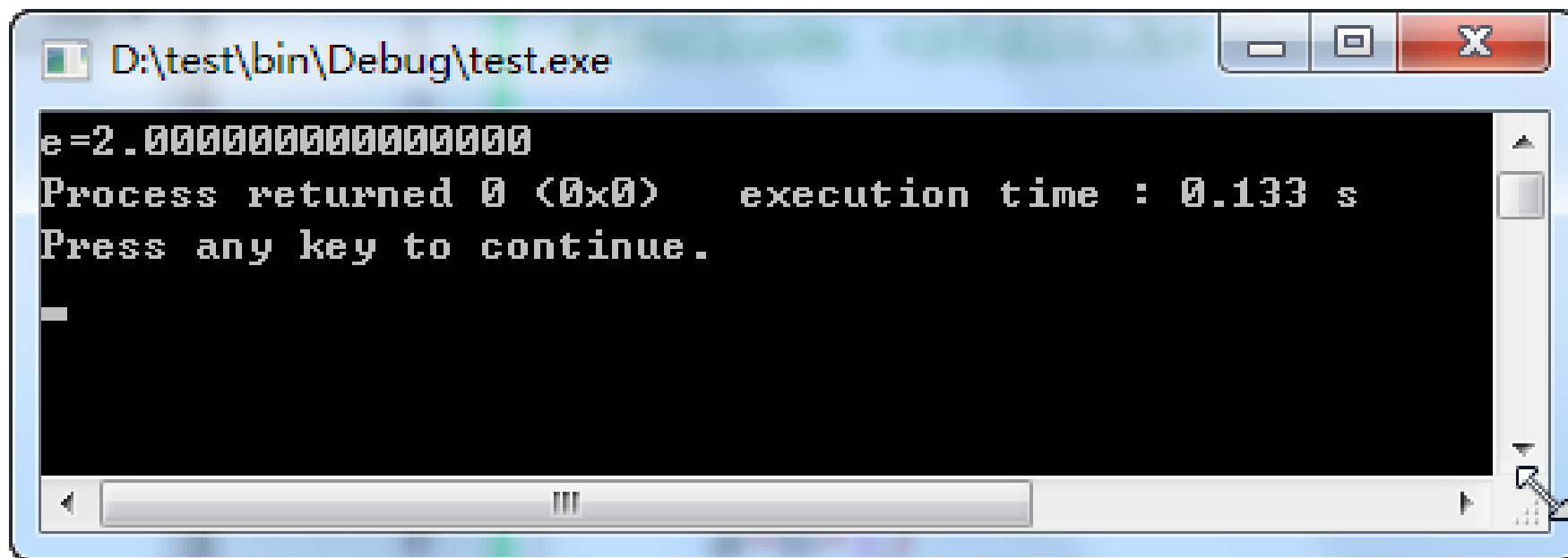
## 程序如下：

```
#include <stdio.h>
int main()
{
    int a,n;
    double e;
    e=1;
    a=n=1;
    while(1/a >= 1e-10)
    {
        e+=1/a;
        n++;
        a*=n;
    }
    printf("e=%.15lf",e);
    return 0;
}
```



```
*main.c x
1  #include <stdio.h>
2
3  int main()
4  {
5      int a,n;
6      double e;
7      e=1;
8      a=n=1;
9      while(1/a >= 1e-10)
10     {
11         e+=1/a;
12         n++;
13         a*=n;
14     }
15     printf("e=%.15lf",e);
16     return 0;
17 }
18
```

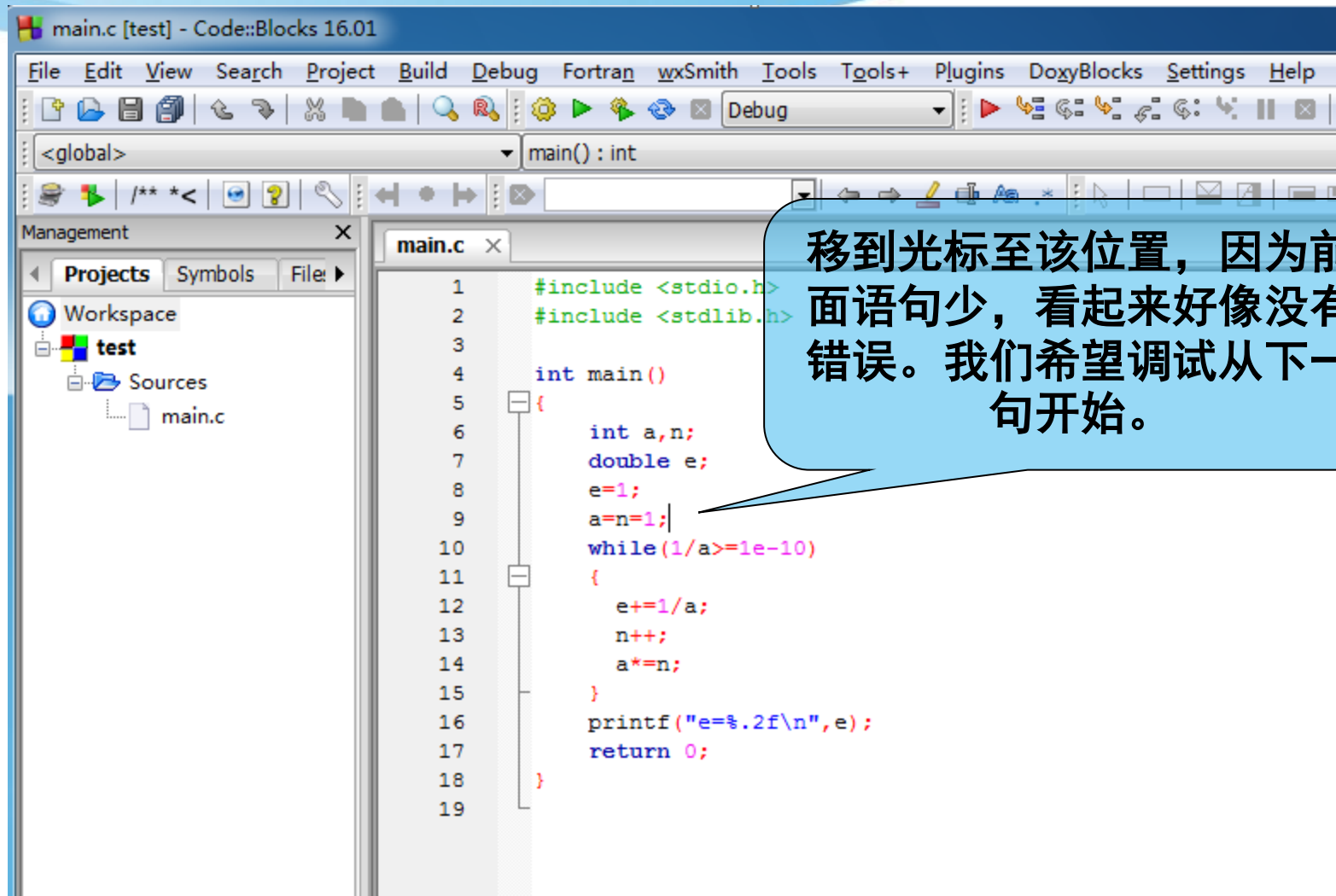
按F9，程序运行结果如下：

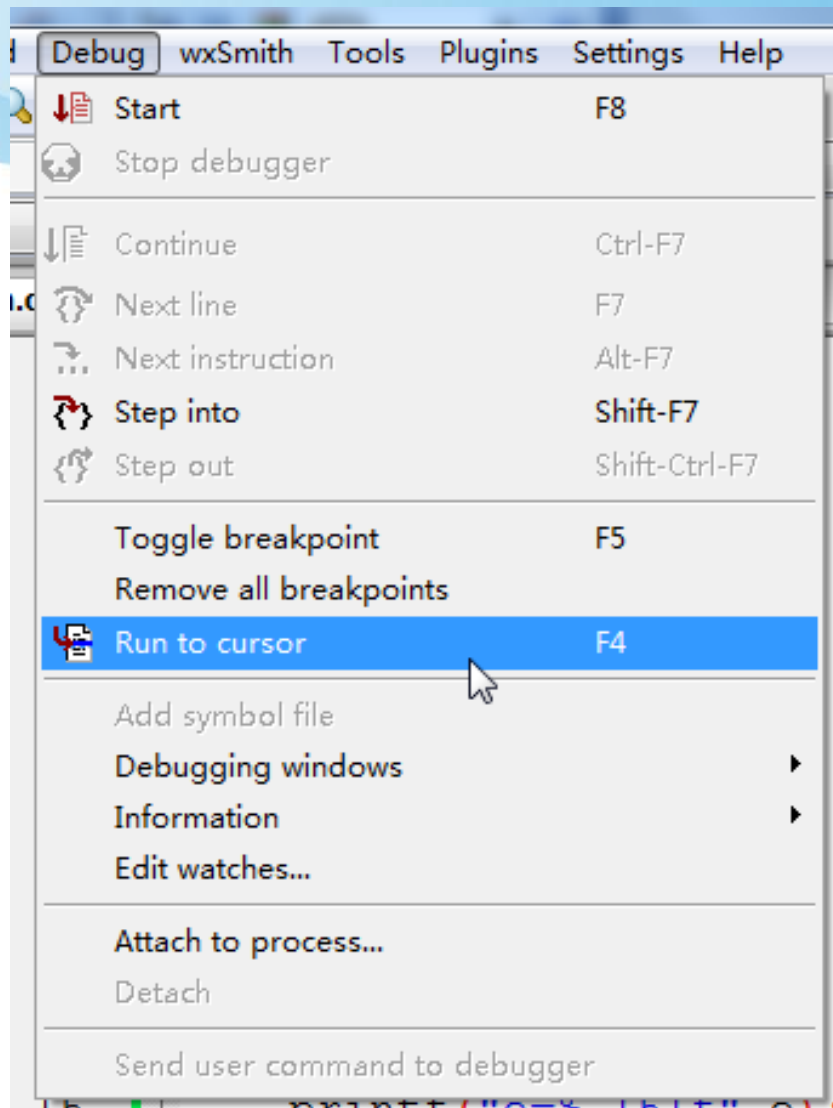


The screenshot shows a Windows command prompt window with the title bar 'D:\test\bin\Debug\test.exe'. The window has standard Windows window controls (minimize, maximize, close) on the right. The command prompt area is black with white text. The text displayed is: 'e=2.0000000000000000', 'Process returned 0 (0x0) execution time : 0.133 s', and 'Press any key to continue.'. A single underscore character '\_' is visible on the line following the prompt. The window has a scrollbar on the right and a status bar at the bottom.

```
e=2.0000000000000000
Process returned 0 (0x0) execution time : 0.133 s
Press any key to continue.
_
```

显然结果是错误的，下面我们进行调试排错。

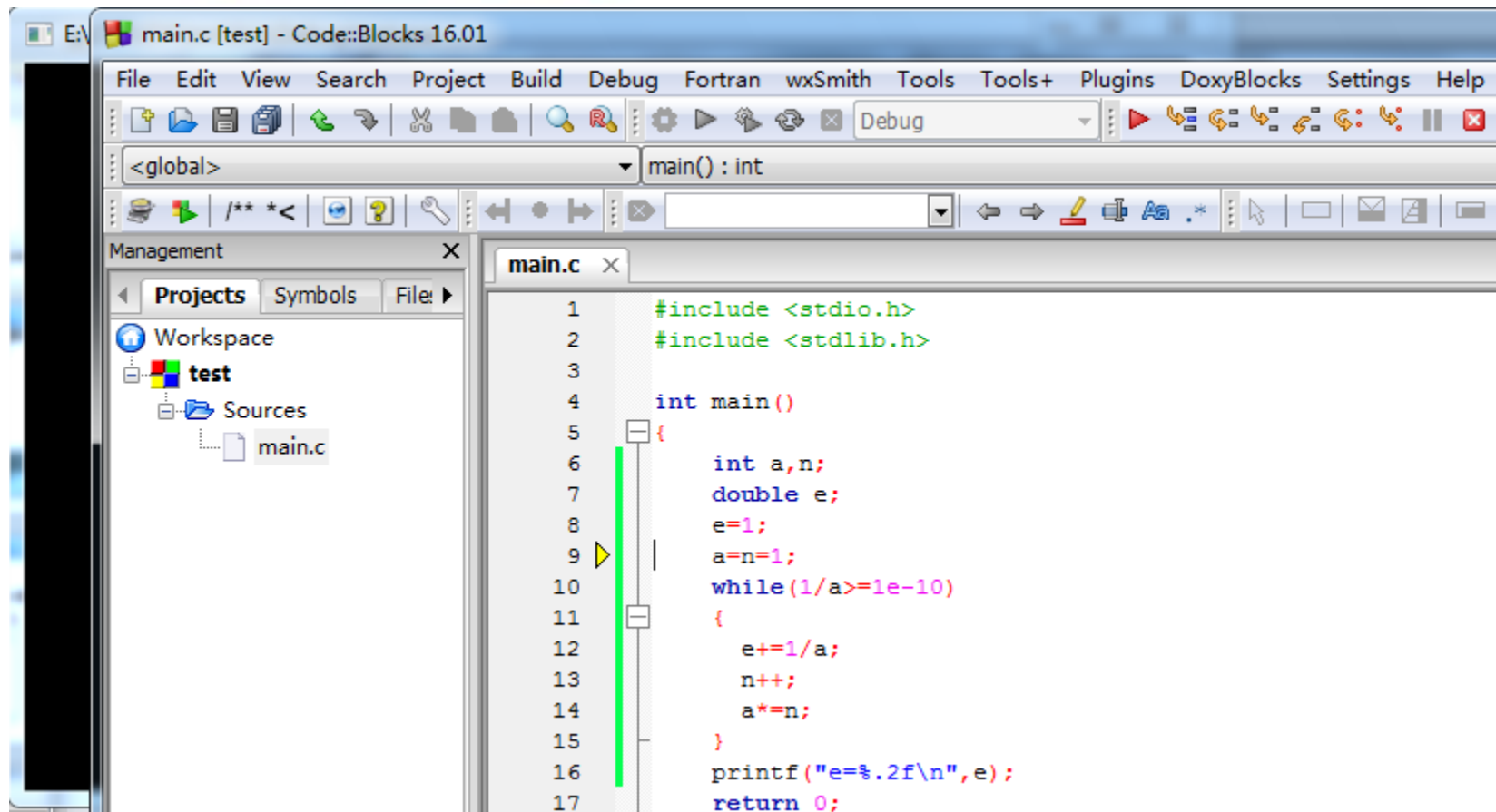




进入Debug(调试)菜单，  
点击Run to cursor(运行  
至光标)，以后也可按F4。

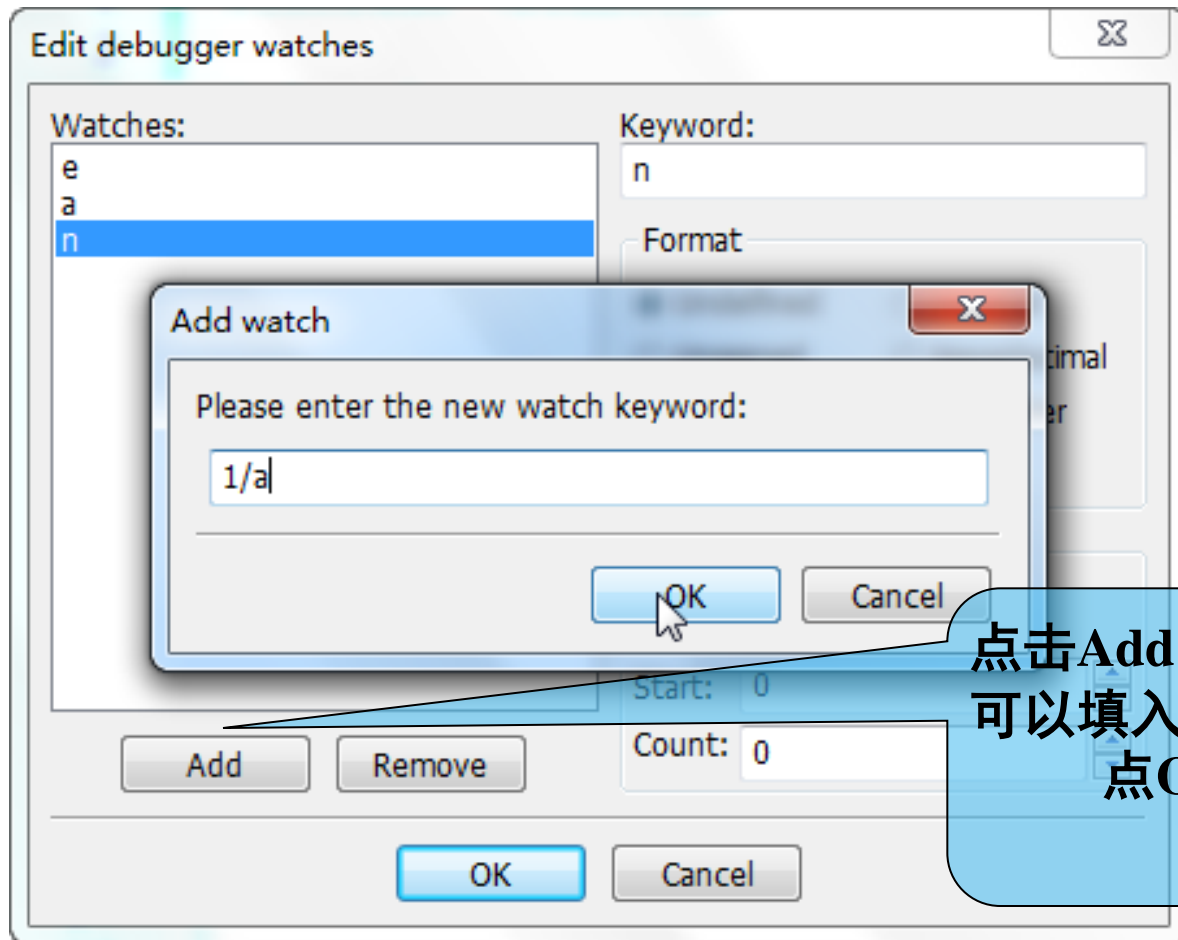


也可以找到此工具栏(调试工  
具栏)，点击该图标，运行至  
光标处。



屏幕变成此图，后面的黑色窗口说明程序正在运行，全黑说明还没有任何输出。前面编辑窗口中的第9行前的小三角形说明已经运行到行。

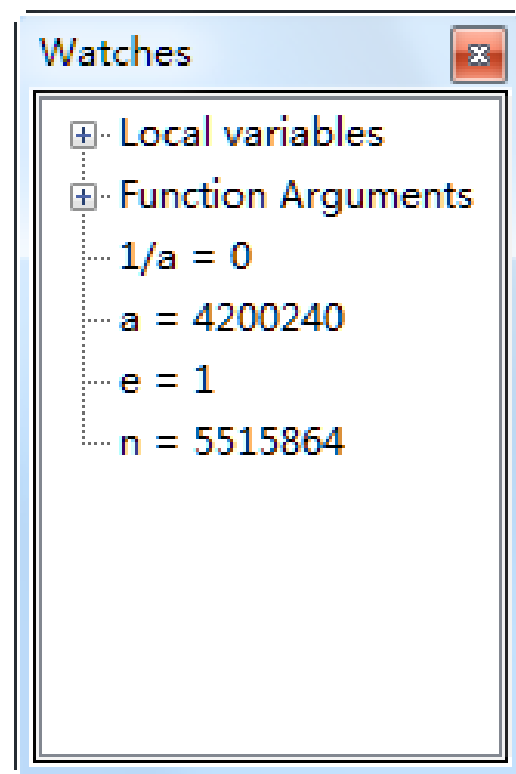
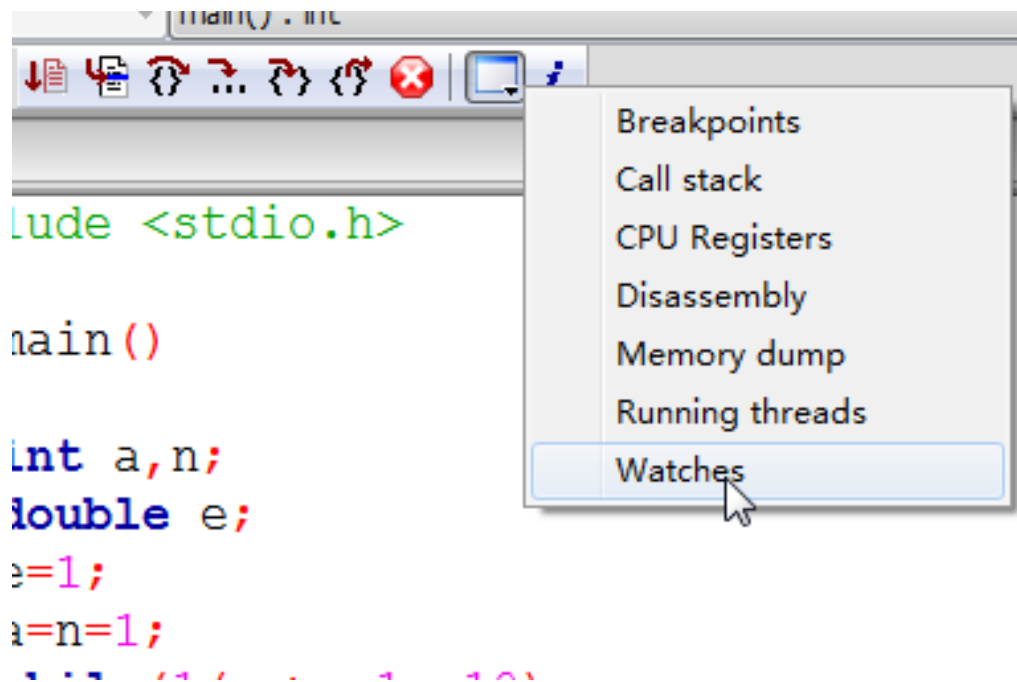
为了看清程序运行过程中变量的变化，可以添加变量的观察。从Debug菜单进去，点击Edit watches...



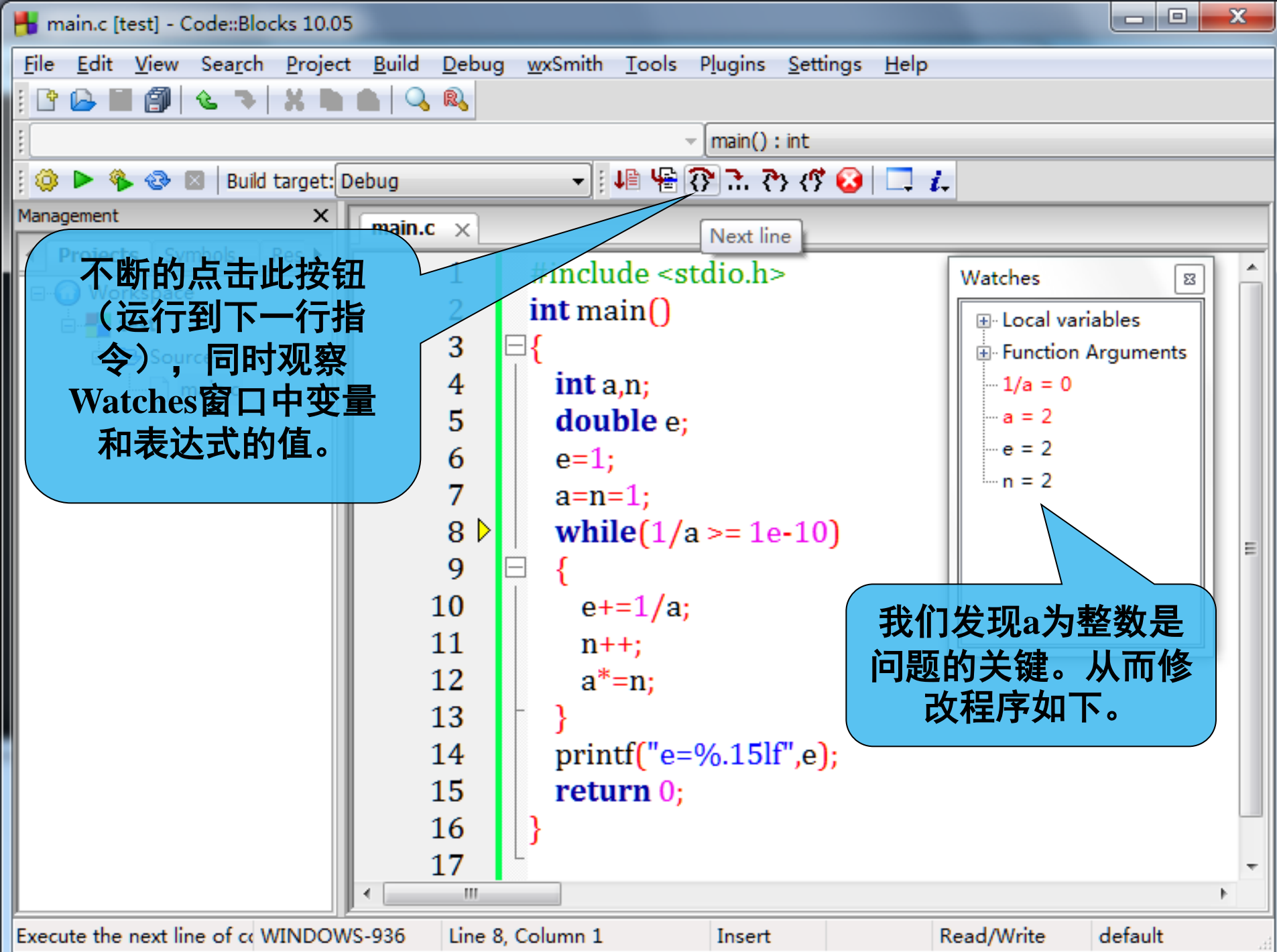
点击Add，弹出上面的窗口，  
可以填入变量或变量表达式，  
点OK就可加入。

添加完成后，点击OK退出。

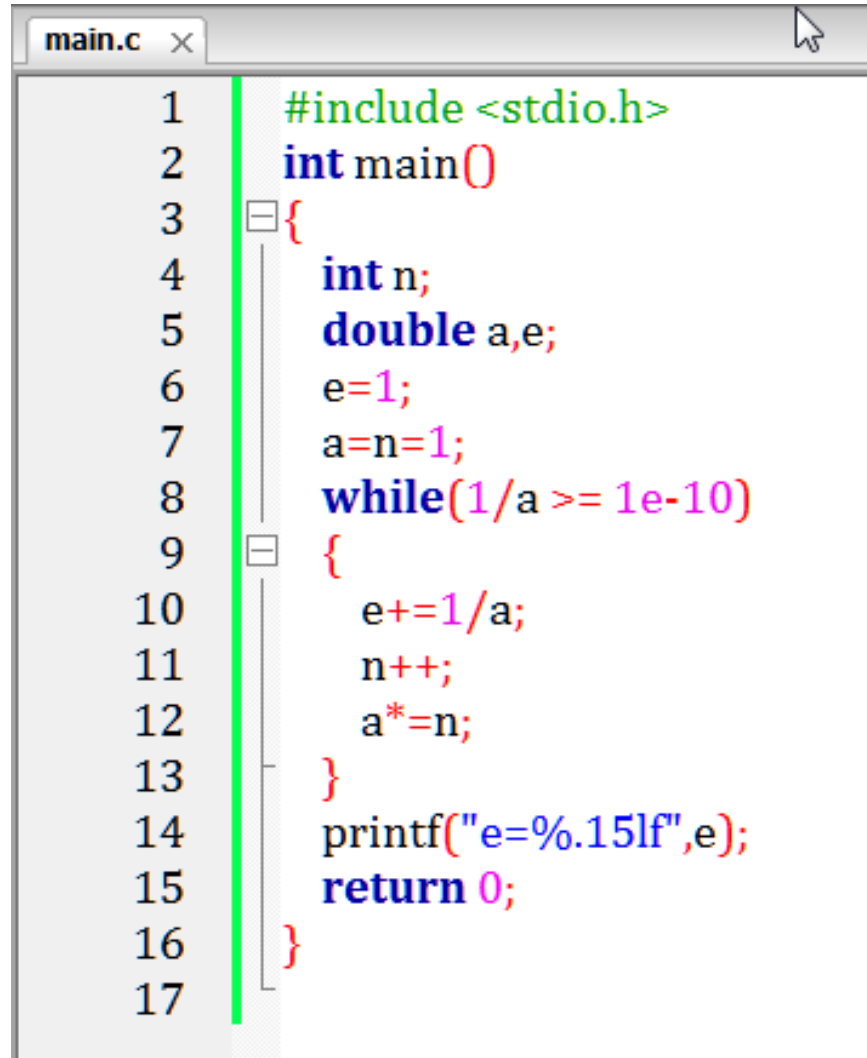
为了能看见变量的值，按如图所示调出Watches窗口。





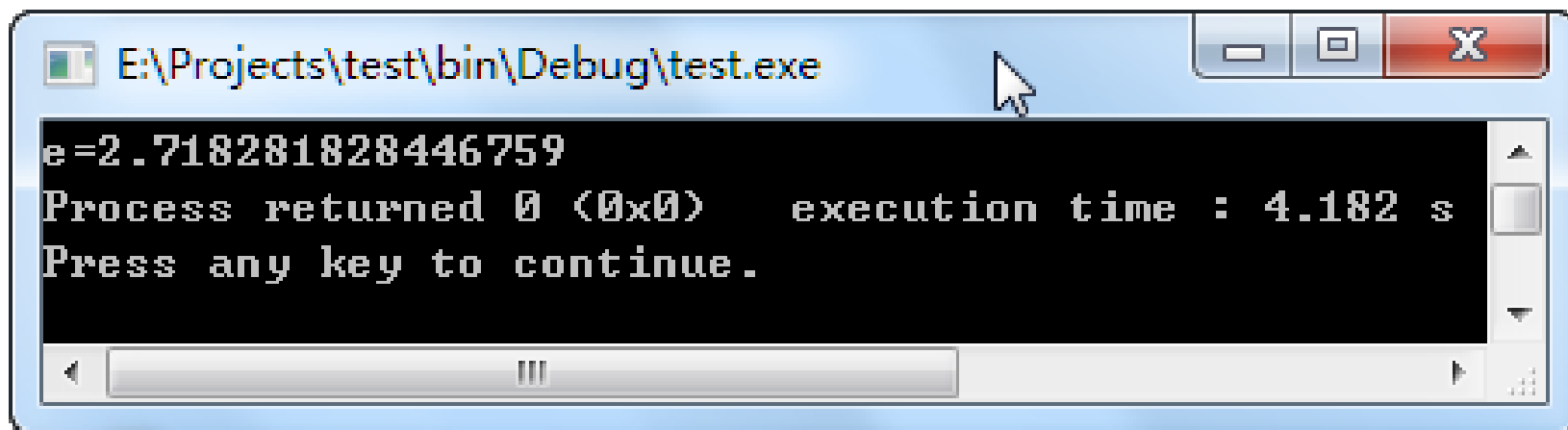


```
#include <stdio.h>
int main()
{
    int n;
    double a,e;
    e=1;
    a=n=1;
    while(1/a >= 1e-10)
    {
        e+=1/a;
        n++;
        a*=n;
    }
    printf("e=%.15lf",e);
    return 0;
}
```



```
main.c x
1  #include <stdio.h>
2  int main()
3  {
4      int n;
5      double a,e;
6      e=1;
7      a=n=1;
8      while(1/a >= 1e-10)
9      {
10         e+=1/a;
11         n++;
12         a*=n;
13     }
14     printf("e=%.15lf",e);
15     return 0;
16 }
17
```

运行结果为：



A screenshot of a Windows command prompt window. The title bar shows the file path "E:\Projects\test\bin\Debug\test.exe". The command prompt displays the following text: "e=2.718281828446759", "Process returned 0 (0x0) execution time : 4.182 s", and "Press any key to continue.". The window has a standard Windows XP-style interface with a blue title bar and a scroll bar on the right.

```
E:\Projects\test\bin\Debug\test.exe  
e=2.718281828446759  
Process returned 0 (0x0) execution time : 4.182 s  
Press any key to continue.
```

正确了！

# 常见的反馈信息

- **Compile Error**: 编译出错，源代码中有语法错误，比如使用某些函数需要的头文件没有包含。
- **Run Time Error**: 程序运行时发生错误，多为数组访问越界。
- **Time Limit Exceeded**: 超时错误，程序运行时间超过运行时间，比如陷入死循环，算法不够高效等等。
- **Wrong Answer**: 答案错误，若通过了样例，可能是因为没有更多的可能情况，导致某些数据通不过。
- **Restricted Function**: 使用某些受限的函数，比如重定向、文件操作函数等。
- **Presentation Error**: 输出格式错误，可能程序输出中多（或少）输出了空格，回车符等。
- **Accepted**: 恭喜，通过