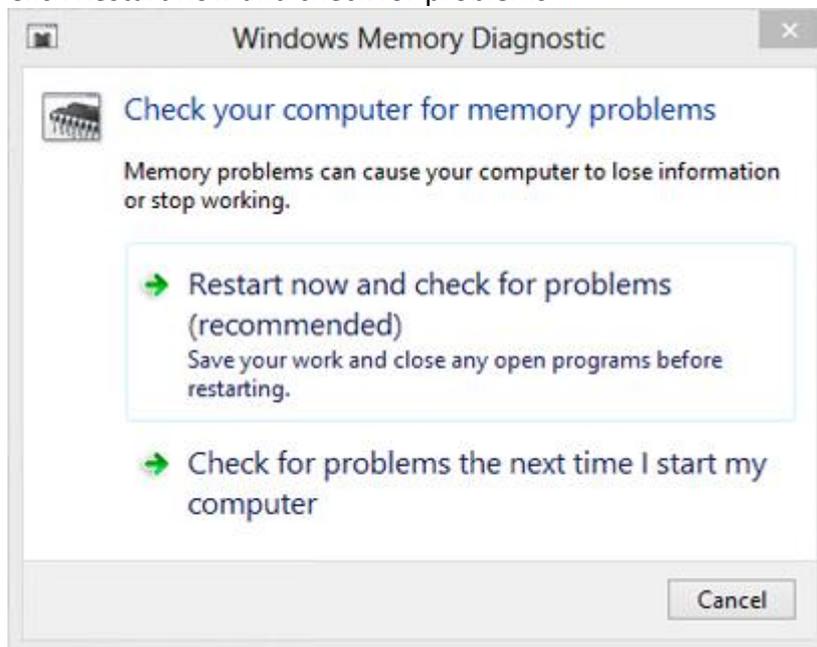# Diagnose memory problems on your PC

The Memory Diagnostics Tool will run automatically after you restart your PC, and it might take several minutes for it to finish checking your PC's memory. If the tool finds errors, you should contact your PC manufacturer for info about fixing them, since memory errors usually indicate a problem with the memory chips in your PC or other hardware problems.

To run the Memory Diagnostics Tool manually

1. Press **Windows key + R** keyboard shortcut, type **mdsched.exe**, and click OK to launch the tool. You might be asked for an admin password or to confirm your choice.

2. Click Restart now and check for problems

   The Memory Diagnostics Tool will run after you restart your computer.

3. Once the Memory Diagnostics Tool has completed and Windows has restarted, the test results will appear in a Windows Memory Diagnostic notification. You can also find the Memory Diagnostics Tool results in Event Viewer.

How to find Memory Diagnostics Tool results in Event Viewer

1. Open Event Viewer by clicking Search, entering Event Viewer in the search box, and then clicking the Event Viewer app.
2. Under Windows Logs, click System, and then under Actions click Filter Current Log.
3. Click the Event sources drop-down, select MemoryDiagnostics-Results, and then click OK.
4. From the filtered list, click an event to view its results.

Advanced options for running the Memory Diagnostics Tool

We recommend that you let the Memory Diagnostics Tool run automatically. However, advanced users might want to change the tool's settings.

To change settings

1. When the Memory Diagnostics Tool starts, press F1.
2. You can change the following settings:
    - Test mix. Choose what type of test you want to run: Basic, Standard, or Extended. The choices are described in the tool.
    - Cache. Choose the cache setting you want for each test: Default, On, or Off.
    - Pass count. Enter the number of times you want to repeat the test.
3. Press F10 to start the test.