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using System.Text;
using System;
using ConsoleApp.Extensions;

namespace ConsoleApp.Extensions
{
    public static class StringBuilderExtensions
    {
        public static int CountWords(this StringBuilder sb)
        {
            var wordCount = 0;
            var previousCharIsSpace = true;

            for (int i = 0; i < sb.Length; i++)
            {
                if (char.IsWhiteSpace(sb[i]))
                {
                    previousCharIsSpace = true;
                }
                else if (previousCharIsSpace)
                {
                    wordCount++;
                    previousCharIsSpace = false;
                }
            }

            return wordCount;
        }
    }

    class Program
    {
        static void Main(string[] args)
        {
            StringBuilder strobj = new StringBuilder("This is to test whether the extension method count  
can return a right answer or not");
            int wordCount = strobj.CountWords();

            Console.WriteLine("Number of words: " + wordCount);

            strobj = new StringBuilder("You can define extension methods for user defined types as well  
as predefined types");
            wordCount = strobj.CountWords();

            Console.WriteLine("Number of words: " + wordCount);
        }
    }
}

```

