Is there a simple way that I can sort characters in a string in alphabetical order

Asked 8 years, 3 months ago Active 1 year, 6 months ago Viewed 75k times



I have strings like this:



var a = "ABCFE";



Is there a simple way that I can sort this string into:



ABCEF

12

Thanks







147 1696

1816

asked Jun 22 '11 at 14:29



56 2 7 1

4 Answers



You can use LINQ:

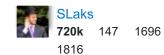


String.Concat(str.OrderBy(c => c))



If you want to remove duplicates, add .Distinct().

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Yes; copy the string to a char array, sort the char array, then copy that back into a string.

74

```
static string SortString(string input)
{
    char[] characters = input.ToArray();
    Array.Sort(characters);
    return new string(characters);
}
```





Jon Schneider

answered Jun 22 '11 at 14:30

Roy Dictus



28.8k 5 50 67

If you're going to neg it, say why. It does very little to help the author or subsequent readers without arguing against the answer. – Marc Jun 22 '11 at 14:32

- 9 This approach runs about 3 times faster than using OrderBy, according to my micro-benchmarks. Brian Jun 22 '11 at 19:05 🖍
- +1 because negative marking and I don't see why. I ran a bench mark and this is far superior to LINQ. Sorting "patrick" with OrderBy took 00:00:00.0000666 compared to Array.Sort 00:00:00.0000022 Patrick Magee Jun 28 '13 at 6:37
- 1 I find this to be more readable than the LINQ solution user1538717 Nov 19 '16 at 21:55
- 2 Apparently the method name is ToCharArray(), not ToArray(). hsandt Mar 28 '17 at 14:59



new string (str.OrderBy(c => c).ToArray())

25

answered Jun 22 '11 at 14:31



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2 use new string will be much faster than string.concat. So if we consider about performance, new string will win. – Will Yu Apr 7 '15 at 15:25

also with the ordered enumerable to array cast? - BigChief Aug 20 '18 at 1:37



You can use this



```
string x = "ABCGH"

char[] charX = x.ToCharArray();
```



Array.Sort(charX);

This will sort your string.

answered Mar 16 '18 at 10:25



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