

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:

54

```
var a = "ABCFE";
```



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



12

ABCEF

Thanks

c#

string

sorting

edited Jun 22 '11 at 15:31



SLaks

720k 147 1696
1816

asked Jun 22 '11 at 14:29



David H

456 2 7 12

4 Answers



You can use LINQ:

103

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



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

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SLaks

720k

147

1696

1816

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);
}
```

edited Dec 4 '17 at 13:43



Jon Schneider

15k

9

102

131

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

6 +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



agent-j

28.8k

5

10

70

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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

2

```
string x = "ABCGH"
```

▼

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

```
Array.Sort(charX);
```

This will sort your string.

answered Mar 16 '18 at 10:25



[Rupesh Kamble](#)

28 1 6