

## How to add a string to a big file in csharp !

**Source:**

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.csharp/2004-11/0888.html>

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I want to add a string to the file and the file is sort by letter! for  
examply:

the follow file is a big file

////////////////////

abort  
black  
cabbage  
dog  
egg  
fly

.

.

////////////////////

and now i want to add "dad" into it ! Just after "cabbage" and at the front  
of "dog"! Because of so many word in file so i need to adopt binary search to  
find the location !

```
/// <summary>  
/// want to find the word from given file  
/// </summary>  
/// <param name="?"></param>
```

```
private bool find(string word)  
{  
if (word == null)  
{  
throw new ArgumentNullException("word is null.");  
}  
}
```

```
StreamReader sr = new StreamReader(file.FullName); //file is object of  
FileInfo  
lock(this)  
{  
//Check the word is in the first!  
string str = sr.ReadLine();  
if (str == null)  
{
```

```
return false;
}
if (string.Compare(str.Trim(),word))
return true;
}

// binary search starts
FileStream fs = File.OpenRead(file.FullName);
long lower = 0;
long upper = fs.Length - 1;
while (lower <= upper)
{
long index = (lower + upper) / 2;
fs.seek(index,SeekOrigin.End);

// read off an incomplete line
str = fs.Read();
////i donot know how to set the parameters of Read() so that it can read a
line

// the line might be null if it's the end of file
int t = str == null ? -1
: string.Compare(word, str.trim());
// found it
if (t == 0)
{
return true;
}
if (t > 0)
{
lower = index + 1;
}
else
{
upper = index - 1;
}
}
}
```

that is the fuction of method and my question is

- 1: the FileStream is fitable in it ?
- 2 : string.Compare is fitable in it ?
- 3: is there any method i can do it better ?

thanx of all !