

Forum:[Hack Forums](#)

Thread: [Verify that one character in a string is a number.](#)

EMJAAY - June 2, 2017, 1:11 am

How would one do this? Cheers.

Note: Limited knowledge on vb.net

Any help is appreciated, Cheers!

Tkings9876 - June 2, 2017, 1:14 am

Does your string only consist of a single character or are you picking out a specific character within a string and wanting to see if it's a number?

EMJAAY - June 2, 2017, 2:19 am

(Jun 2, 2017 01:14 AM)Tkings9876 Wrote: [\[CITE\]](#) Does your string only consist of a single character or are you picking out a specific character within a string and wanting to see if it's a number?

Im trying to pick out a number within a long string eg:

```
test1test = HasNum
```

```
testtest = NoNum
```

Tkings9876 - June 2, 2017, 2:47 am

(Jun 2, 2017 02:19 AM)emjd- Wrote: [\[CITE\]](#) Im trying to pick out a number within a long string eg:

```
test1test = HasNum
```

```
testtest = NoNum
```

```
Code Dim hasNumber As Boolean = False
```

```
Dim input As String = "test1test"
```

```
Dim characters() As Char = input
```

```
For Each c As Char In characters
```

```
    If IsNumeric(c) Then
```

```
        hasNumber = True
```

```
    Exit For
```

```
End If
```

```
Next
```

```
MessageBox.Show(hasNumber.ToString())
```

This will loop through each character of the string "input". If it finds a numeric character the hasNumber boolen will be set to true and the loop will exit. If no numeric characters have been found hasNumber will be false. MessageBox.Show to display the outcome.

Hope this helps.

EMJAAY - June 2, 2017, 4:20 am

(Jun 2, 2017 02:47 AM)Tkings9876 Wrote: [\[CITE\]](#) Code Dim hasNumber As Boolean = False
Dim input As String = "test1test"

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Hope this helps.

Testing it now. Thanks!

Aristocles - June 2, 2017, 5:07 am

A good approach would be possibly using a Regex too, even though give method above is working.

```
Code Dim emjd7 = "emjd7"
```

```
If Regex.IsMatch(emjd7, "(d+)") Then
```

```
    Console.WriteLine("yes")
```

```
Else
```

```
    Console.WriteLine("No")
```

```
End If
```

Here I have a string, emjd7, which contains a number, 7.

Regex (d+) stand for AnyDigit in the given string.

Here is full source code to test it out :

<https://dotnetfiddle.net/OSpmyl>

I built my regex using this website : <https://txt2re.com/index-vb.php3?s=ggfgdfg5&4>

you enter a string an you can click on anything to produce regex, really fast-productive ! :)

For a better approach than mine on Regex, see <https://www.dotnetperls.com/regex-vbnet>

darkdoctor - June 3, 2017, 10:21 am

(Jun 2, 2017 04:20 AM)emjd- Wrote: [\[CITE\]](#) Testing it now. Thanks!

Very good Baqa ...

Ninja - June 3, 2017, 10:27 am

(Jun 2, 2017 05:07 AM)Martin Heidegger Wrote: [\[CITE\]](#) A good approach would be possibly using a Regex too, even though give method above is working.

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Code Dim emjd7 = "emjd7"
If Regex.IsMatch(emjd7, "(d+)") Then
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Here I have a string, emjd7, which contains a number, 7.
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you enter a string an you can click on anything to produce regex, really fast-productive ! :)

For a better approach than mine on Regex, see <https://www.dotnetperls.com/regex-vbnet>
Regex is a bit overkill.

The Any method from the LINQ namespace like Orka suggested is the way to go.

Aristocles - June 3, 2017, 10:32 am

(Jun 3, 2017 10:27 AM)Ninja Wrote: [\[CITE\]](#) Regex is a bit overkill.

The Any method from the LINQ namespace like Orka suggested is the way to go.
What do you mean by 'overkill' ? Also LINQ syntax may not be noob-friendly enough hence why I shared regex solution

Ninja - June 3, 2017, 10:45 am

(Jun 3, 2017 10:32 AM)Martin Heidegger Wrote: [\[CITE\]](#) What do you mean by 'overkill' ? Also LINQ syntax may not be noob-friendly enough hence why I shared regex solution
Regex is a bit too heavy for just checking if a string contains a digit.

Aristocles - June 3, 2017, 11:50 am

(Jun 3, 2017 10:45 AM)Ninja Wrote: [\[CITE\]](#) Regex is a bit too heavy for just checking if a string contains a digit.

I still don't understand, "overkill", now "too heavy" ?

Google "check if string contains digit c#" will underlines two possibilities : LINQ and Regex. Both are good, I don't think Regex uses that much memory compared to LinQ though I may be wrong.

+Haze - June 3, 2017, 12:20 pm

(Jun 3, 2017 10:45 AM)Ninja Wrote: [\[CITE\]](#) Regex is a bit too heavy for just checking if a string contains a digit.

Regex isn't overkill, it's literally designed for tasks like these. Regex is mainly for pattern matching. If anything, Linq is overkill due to the overheads.

Washi - June 3, 2017, 4:06 pm

(Jun 3, 2017 12:20 PM)+Haze Wrote: [\[CITE\]](#) Regex isn't overkill, it's literally designed for tasks like these. Regex is mainly for pattern matching. If anything, Linq is overkill due to the overheads.
I very much doubt that since regular expressions are converted to entire method bodies that need

to be assembled, whereas LinQ is just a simple lazy iterator.

+Haze - June 3, 2017, 5:05 pm

(Jun 3, 2017 04:06 PM)Washi Wrote: [\[CITE\]](#) I very much doubt that since regular expressions are converted to entire method bodies that need to be assembled, whereas LinQ is just a simple lazy iterator.

Eh, sounds about right, I forgot regex are complex little things behind the scenes.

HFDone - June 3, 2017, 5:05 pm

the simple way Char.IsNumber

Ninja - June 3, 2017, 5:14 pm

(Jun 3, 2017 05:05 PM)HFDone Wrote: [\[CITE\]](#) the simple way Char.IsNumber

That is for chars, not strings. You mean loop over each char and apply a condition using that?

log dot zip - June 3, 2017, 5:27 pm

(Jun 3, 2017 12:20 PM)+Haze Wrote: [\[CITE\]](#) Regex isn't overkill, it's literally designed for tasks like these. Regex is mainly for pattern matching. If anything, Linq is overkill due to the overheads.

Please run a speedtest on a LINQ vs. RegEx in this scenario and come back with the overhead argument. It simply isn't true. RegEx definitely should not be used in this case.

DBots - June 3, 2017, 5:30 pm

IMO, overkill would be to optimize the code you're trying to use if it's not a performance issue.

However, one can't say Regex would run heavier over LINQ or vice versa because the way it is being used is not specified. We are going by our assumptions of the usage, but I can point to a scenario where I believe Regex would out-perform LINQ.

By using the Compiled flag on a pattern, so it can be compiled once only, and reused. I would recommend declaring it in a read-only object.

Could also look into compiling and saving the regular expression into an assembly, that would really increase performance.

However way you decide to go about it, write what is readable and feels right for you that works. If there's a performance issue, then you can start looking into alternative options.

+Haze - June 3, 2017, 6:19 pm

(Jun 3, 2017 05:27 PM)Rabite Wrote: [\[CITE\]](#) Please run a speedtest on a LINQ vs. RegEx in this scenario and come back with the overhead argument. It simply isn't true. RegEx definitely should not be used in this case.

<https://hackforums.net/showthread.php?tid=5637373&pid=55018320#pid55018320>

And, regex is suitable in this situation, it might not be the "quickest", but it's still suitable. Especially in the context of modern day computers.

(Jun 3, 2017 05:14 PM)Ninja Wrote: [\[CITE\]](#) [] NOT REKTED | [X] REKTED

???

Ninja - June 3, 2017, 9:04 pm

(Jun 3, 2017 06:19 PM)+Haze Wrote: [\[CITE\]](#) ???

't was a joke.

