

Making Connections

Thursday, February 28, 2013
8:28 AM

```
int harinder=0;
string c="";
string s="aeiouAEIOU";
string a="Laziness is for fools!";
for (int i=0; i<a.Length; i++){
    c=a.Substring(i,1);
    if (s.IndexOf(c)>=0)
        harinder++;
}
```

How is this code segment (snippet) related to calculating the checksum?

→ This would allow you to extract one digit from the credit card #

0	1	2	3	4	5	6	7	8	9	10
L	a	z	i	n	e	s	s	i	s	...
i	c									
0	"L"									
1	"a"									
2	"z"									
⋮	⋮									

→ i changes because of the loop

Calculating the checksum requires exactly the same structure!!

```
int checksum = 0, length = creditCardNum.Length;
```

// Scan the string containing the credit card number
// from right to left, digit by digit.

```
for (int i = length - 1; i >= 0; i--)
```

```
{
    // Extract the digit at index i and convert to type 'int'
    int digit = Convert.ToInt32(creditCardNum.Substring(i, 1));
}
```

- (3) (2) (1)
- Figure out what to do with the value of 'digit'
-
-

}